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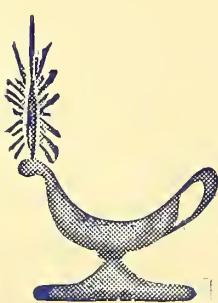
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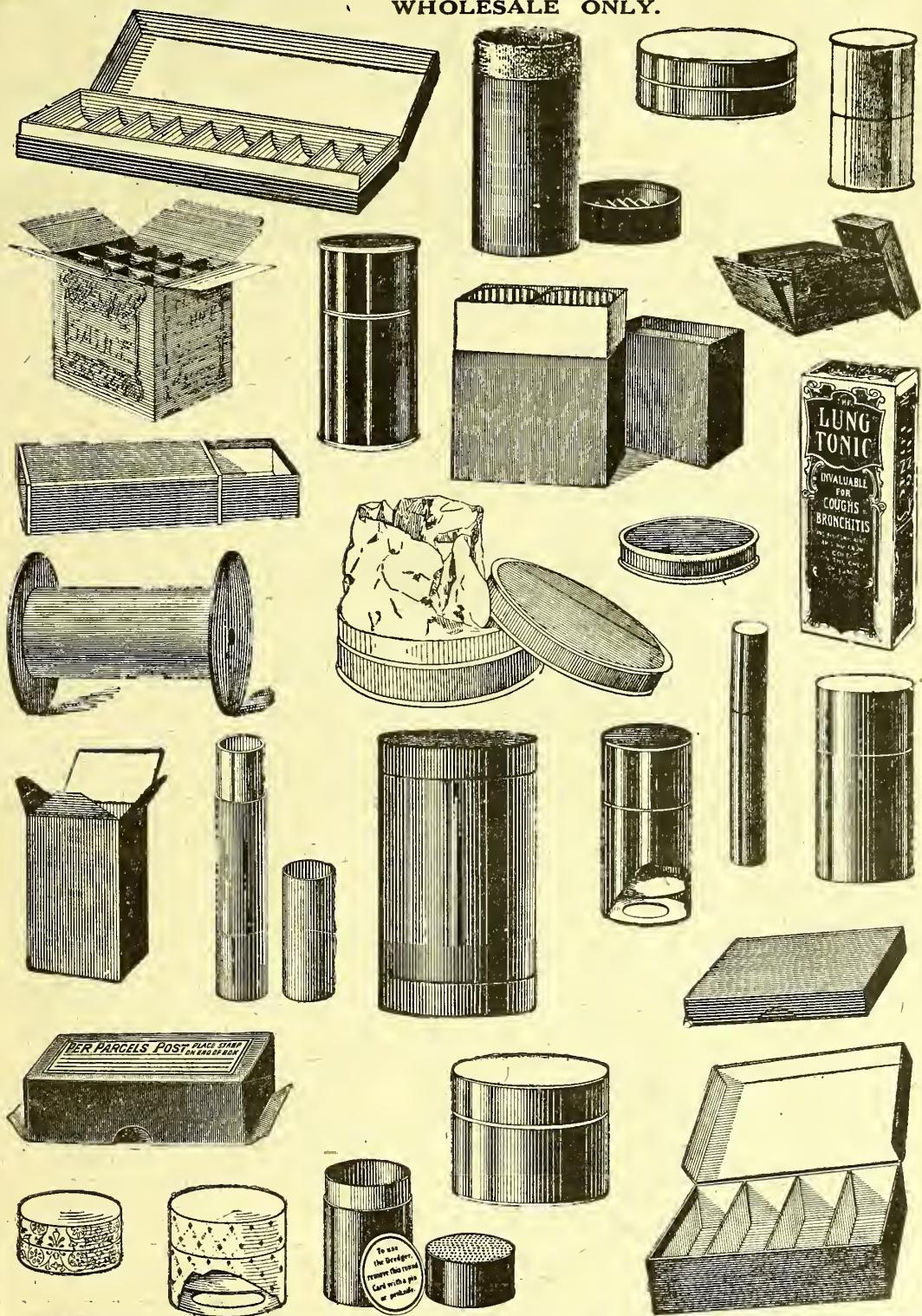
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for the HAIR & SCALP

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Costing you	1 0 0
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Net Profit of 75%	15 0
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SILKODONO (2/6 Size) 3 dozen lot...	4 10 0
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BONUS—9 Extra Bottles ... 1 2 6

Costing you	5 12 6
-------------	--------

Costing you	3 0 0
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Net Profit over 85%	2 12 6
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SILKODONO (4/6 Size) ... per dozen	2 14 0
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BONUS—2 Extra Bottles ... 9 0

Costing you	3 3 0
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Costing you	1 16 0
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Net Profit of 75%	1 7 0
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SILKODONO (4/6 Size) 3 dozen lot...	8 2 0
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BONUS—9 Extra Bottles ... 2 0 6

Costing you	10 2 6
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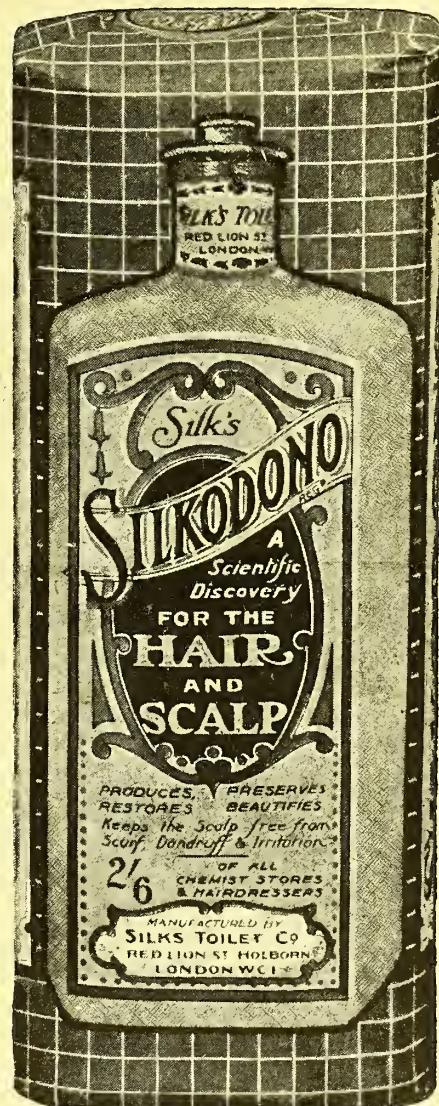
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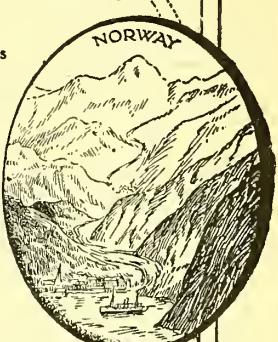
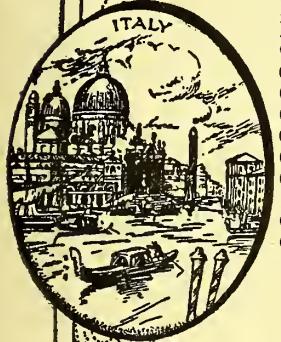
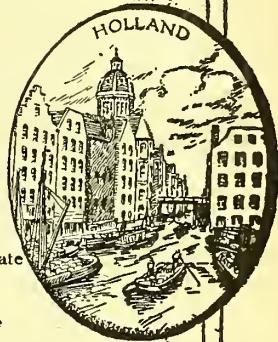
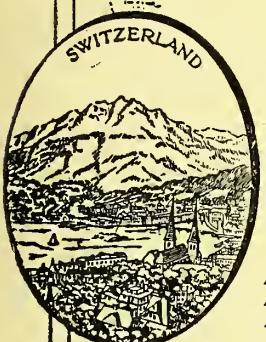
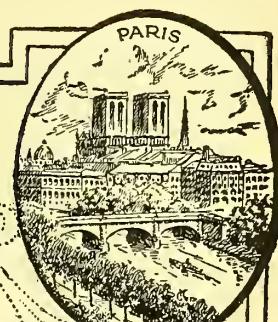
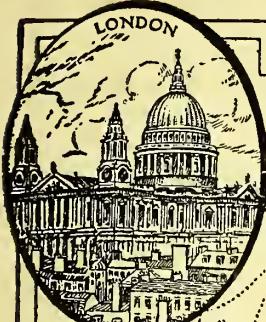
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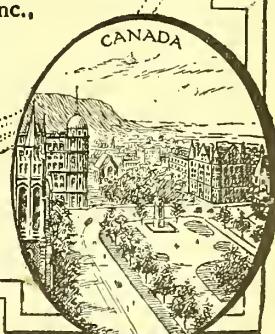
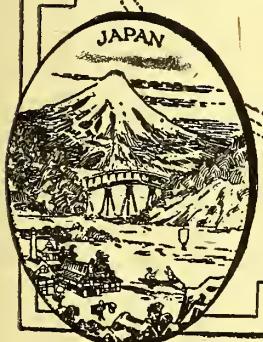
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Maw's Page

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NUMBER 457.
JULY 17, 1920.

For the Garden

What is more annoying or causes greater loss than when your garden produce is destroyed by insects?

People who do any gardening, no matter on what scale, realise this annoyance and are ever ready to avoid it.

Here is an opportunity for you to extend your business. In the coming month many people will be thinking of their gardens and how to improve them.

During the summer the Syringe is in constant demand. Why not show one on your counter? You will find the price enables you to meet competition.

GARDEN SYRINGES.

Stout brass, polished and lacquered, with good packings, metal nozzles which are screwed to barrel when not in use, polished black handles. Size of barrel, 18 in. by 1½ in.

No. 1. Fitted with one jet, one fine and one coarse rose.

Price 8/3

No. 2. With one jet and one coarse rose.

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Discus

6th Tins of Quality⁹

THE empty Carbolic Tooth Powder Containers here illustrated are made in two sizes as follows:

6d. size ... 2½ in. x 1½ in.

1/- " ... 3 " x 1¼ "

They are handsomely designed and elegantly printed in three pleasing colours upon the best quality gilt plate.

Here is your opportunity to replenish diminishing stocks of Tooth Powder Tins for the purpose of boxing own preparations.

PRICES—

6d. size	17/6 per gross.
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1/- "	26/6 " "
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Guaranteed Accurate

IN spite of the ruling high prices of glass, we are able to offer a useful graduated Medicine Tumbler at a comparatively low cost. The graduations are engraved to four tablespoons and eight teaspoons (guaranteed accurate).

Made of good quality thin glass, well-finished, measuring 2½ in. high.

These will make a serviceable addition to your customers' medicine chests.

No. 21.—In one-dozen boxes, price 12/9 per dozen. Each in red case, 15/- per dozen.

There are many cheaper Creams than Tokalon
— but your Customers don't want them.
There may be better Creams than Tokalon
— but just try to find them!

CRÈME TOKALON



PRICES 1/6 & 2/6

With the help of our advertising, you, Mr. Chemist, have to sell Tokalon cream and powder to your customer the first time, but from then onward they sell themselves. After once testing these remarkable products the customer will not feel satisfied with any others.

Why it is that Peggy O'Neil finds Crème Tokalon so different from all others.

Crème Tokalon imparts marvellous beauty to the complexion because it contains buttermilk and other skin-preserving and nourishing ingredients found in no other Cream.

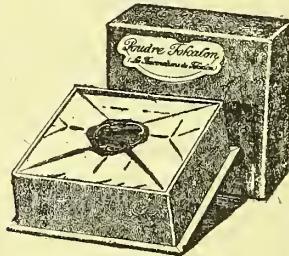
COMPLEXION PERFECTION
is merely a matter of using
**CRÈME
TOKALON**
(Pronounced Tok-a-lon)



What Peggy O'Neil says about
CRÈME TOKALON & POUDRE TOKALON.

"May I add my word of praise to your delightful Crème Tokalon. I've been in England but a short time, and I'm happy to have found this splendid Crème. It beats any other, and my dressing table in hotel and theatre is never without this new luxury. The poudre, too, is delightful, and I'm more than glad to have found it." *Peggy O'Neil*

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for 3 doz. or over.

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Poudre Tokalon
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all others.

One of the charms of
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its extreme fineness,
produced by the
"air floating" pro-
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use exclusively in
manufacturing the
powder.

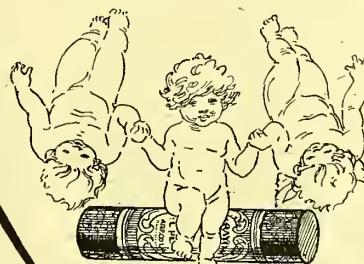
YOU SHOULD ALWAYS KEEP THESE TWO QUICK-SELLING LINES IN STOCK.

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One good turn deserves another

*To turn a homely phrase
to the benefit of the trade
May we suggest that
Crayon Artina
is as worthy of attention
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Artinette
Series of Concentrated
Perfumes
"A casket of a thousand flowers"

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Jasmin.
Opopanax.
Lily of the Valley.

49/6 doz.
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Retail Price
6/6



Crayon Artina
an unique Manicure
& Preparation

Simple to use as its lasting brilliance is incomparable. Applied to the nails it gives a glass-like polish that will last for many days. Neither water nor soap will dim it, and, in fact, after washing, just a rub with a manicure pad or soft cloth will even increase the lustre of this polish. Sufficient as it is to last for quite a long time, this Crayon is small enough to be conveniently carried in a vanity bag or the waistcoat pocket.

12/- dozen. Bonus $\frac{1}{2}$ dozen on 3 dozen order.
CRAYON ARTINA is sold by all Chemists and stores at **1 1/2** a stick.
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All four repeaters!

Contents guaranteed genuine.

Sell themselves!

Packed in white glass toilet Bottles, with sprinklers and
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Price 10/6 per dozen net.

Samples of labels on request.

AYRTON'S WEEKLY

PAGE
15

50 Customers for one dozen Ayrton's Cocoanut Oil Shampoo !

Order from us one dozen Ayrton's Cocoanut Oil Shampoo, and we will forward you blank forms for the names and addresses of 50 of your customers. Return same to us, and we will post to your customers a letter describing the merits of Ayrton's Cocoanut Oil Shampoo, also, that it can be purchased at your pharmacy.

**There's no secret
about Ayrton's
Cocoanut Oil Shampoo**



British and Best !

If you prefer to order through any other wholesale house, send us a post card saying that you have ordered one dozen (giving name of wholesale house), and we will send you the blank forms.

Don't delay. Place your order to-day ! Ayrton's Cocoanut Oil Shampoo is packed in 4-oz. bottles with sprinkler, attractively labelled and cartoned.

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Handsome showcards, testimonial cards and window posters with all orders.

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Manufacturing Chemists

34 Hanover Street, LIVERPOOL

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ARMOUR'S JUNKET POWDER or TABLETS

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Profit 27/- = **75%**

This is the Junket Season.

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Makes delicious Curds and Whey. Packed in Boxes of
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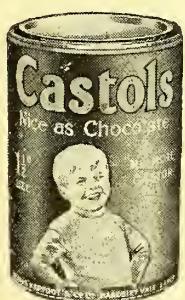
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"LEONA" DENTAL CREAM

(Mint or Thymol)

Small Size ...	Cost 4/6 per dozen	Sell @ 7½d.
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Recommended by the Institute of Hygiene.

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A Delightfully Perfumed Vanishing Cream packed in
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Packed in beautifully embossed tins and cartons.

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Every Line is a work of art.

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YOU WON'T REGRET IT

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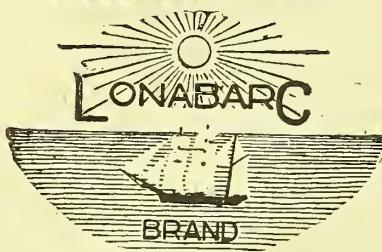
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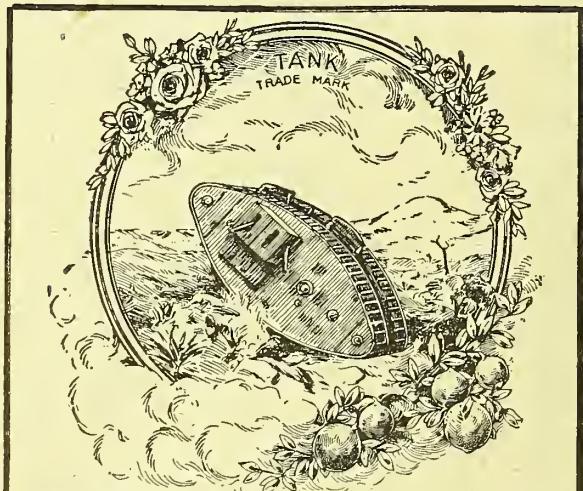
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Appeals irresistibly to every woman. The quickest selling line of face powder ever shown.

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Handbag size	-	-	1/-
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Small size	-	-	-	1/6
In leather case	-	-	-	5/6

Tints:

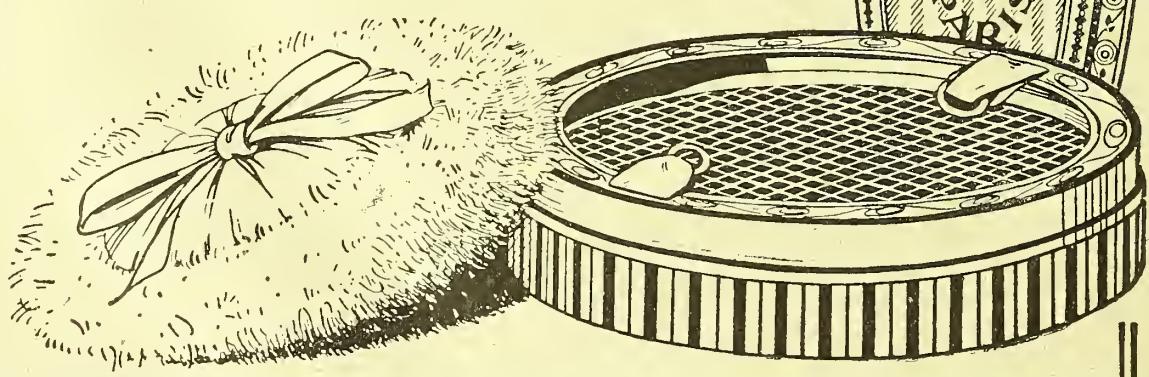
Brune & Blonde

THROUGH YOUR
WHOLESALE
HOUSE.

EACH
BOX
CONTAINS
A PUFF

NILDÉ, Paris

*British and Colonial Agents :
8 BLENHEIM ST., LONDON, W.1*



*The Perfume which has Captivated
the Public.*

BUISSON FRERES' **ORIENTAL POPPY**

An Eastern Perfume of wonderful fragrance and great
lasting power, packed in dainty bottles and cartons.

(PROTECTED P.A.T.A. PRICES.)

SIZE	WHOLESALE	RETAIL
C $\frac{1}{2}$	24/- per doz.	3/- each
C1	42/- " "	5/3 "
C2	80/- " "	10/- "

Terms: 10% Discount on a £10 Parcel.

5% " " £5 "

2 $\frac{1}{2}$ % " 30 Days.

Sole Proprietors:

W. J. BUSH & CO.
LIMITED,

Ash Grove,

HACKNEY, E. 8.

MIMOSA

(Emulsified)

Cocoa - Nut Oil Shampoo.

Best Recipe. Smartest Style.

2-oz. Bottles 10/- doz. M.R.P. 1/3
4-oz. , 14/6 , , 2/-
Less 2½% 30 days.

Cocoa-Nut Oil Shampoo Powders

24/- gross. Retail 4d. each.

Commission Agents wanted for Scotland, Ireland, Midlands and North of England.

Address Orders, etc., to

HARRIS & GEDDES,
Manufacturing Chemists,
Albert Works, Chatsworth Road,
STRATFORD, E.15.

Telephone: Stratford 814.

A WORD OF ADVICE TO CHEMISTS.

WE have made important advertising contracts with the leading fashion papers of Great Britain, to run for the next twelve months, bringing to the notice of everyone the World-wide popular



Place some jars of this Cream in your window NOW, together with the new handsome Showcard, and benefit by this advertising campaign to the utmost extent. It will cost you nothing; it will bring business to you without a doubt.

CALMON & NEATE,
Sole Agents for J. LESQUENDIEU, Paris.

8 Gerrard St.,
London, W. 1.

12 Rue Vivienne,
Paris.

Enolin

TOOTH PASTE "Strong" or "Mild"

THE SUPER PASTE

"Enolin" is also supplied in Powder Form - 6d. & 1s. Tins

Selling Agents for Provinces, Ireland and Export—

Messrs. PATTINSON & MACKIE, LTD.

Albion House, 59 New Oxford Street,
London, W.C. 1.

Sole Manufacturers and Proprietors—

A. & E. CARRERAS, LTD., Perfumers,

207 King Street, Hammersmith,
London, W. 6.

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

		Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP	-	10/-	1/-
A complexion soap.			
PROLACTUM	-	10/-	1/-
For the lips.			
PARSIDIUM JELLY	-	10/-	1/-
For wrinkles.			
ALLACITE of ORANGE	22/6	2/6	
A dressing cream.	BLOSSOM		
BORANIUM	-	22/6	2/6
A hair tonic.			
CLEMINITE	-	22/6	2/6
For a face lotion.			
COLLHANDUM	-	22/6	2/6
For a face tint.			
PERGOL	-	22/6	2/6
A deodorant.			
STALLAX	-	22/6	2/6
For a shampoo.			
JETTALINE	-	31/6	3/6
For clearing the skin.			
PHEMINOL	-	36/-	4/-
A depilatory.			
MENNALINE	-	36/-	4/-
For the eyelashes.			
MERCOLIZED WAX	31/6	3/6	
A face cream.			
STYMPOL	-	36/-	4/-
For oily complexions and blackheads			
BARSYDE	-	22/6	2/6
Dandruff eradicator.			
TAMMALITE	-	22/6	2/6
For grey or faded hair.			
LIQUID PERGOL	-	31/6	3/6
To check excessive perspiration locally.			
BICROLIUM	-	22/6	2/6
For whitening the hands.			
HARAPOSA	-	22/6	2/6
Nut oil shampoo.			

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA :

ALL WHOLESALERS, and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA :

LENNON & CO., Ltd. (Cape Town)
SIVE BROS. & KARNOVSKY, Ltd. (Johannesburg)

INDIA :

KEMP & CO., Ltd. (Bombay)
THE INTERNATIONAL TRADING CO., Princess Street (Bombay)
R. MACLURE (Madras)
SMITH, STANISTREET & CO. (Calcutta)
MEHTA BROS. (Calcutta)
JAMNADAS BROS. (Bombay)

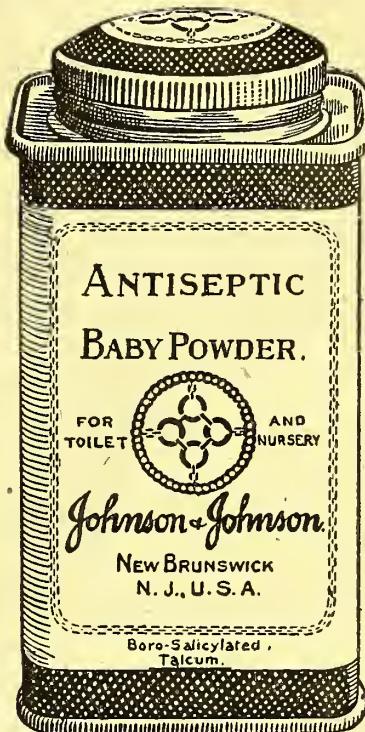
NEW ZEALAND :

SHARLAND & CO., Ltd. (Auckland & Wellington)

SOUTH AMERICA :

DEARBORN, Ltd., Calla Salta 264, Buenos Aires.

SOLD THE WORLD OVER.



Antiseptic TOILET & BABY POWDER

JOHNSON & JOHNSON
British - Manufacture.

Made from the Best Talcums
and Delicately Perfumed.

Bonus given for order of 2 gross
and window display.

For particulars apply to—

JOHN TIMPSON & Co., Ltd.
104 Golden Lane - - E.C. 1.

A. BOURJOIS & Cie, Ltd.

66 CARTER LANE - LONDON, E.C. 4.

Please note that the prices of
Poudre de Riz de Java (Bourjois)
 are as under :

2/- size.	No. 45	1/3 size.	No. 495
1 doz. -	16/- per doz.	1 doz. -	11/- per doz.
6 " -	15/9 "	6 " -	10/9 "
12 " -	15/6 "	12 " -	10/6 "

The P.A.T.A. prices for Java Powder have been increased to
 May 1, 1920. 2/- and 1/3 per box.

MOUSLEY'S "BEAVERPUF"

Patent Nos. 4931 and 4932.

The Ladies' Natty Friend.

B. quality
 Brown
 Fur,
 3/11
 each,
 Retail.



G. quality
 Grey Fur,
 4/6
 each,
 Retail.

Additional Powder Bags, 6d. each, Retail.

Revolution in Powder Puff Manufacture.
 Thousands already sold.
 Now stocked by leading Wholesale Houses.
 Usual Trade Discounts.

Patentee and Sole Manufacturer:

F. A. MOUSLEY,
 Priest Bridge, Mortlake, London, S.W.14.

All Chemists and Stores adjacent to Theatres and
 Music Halls should stock the famous

LE ROZA

Theatrical Cold Cream and Grease Paint Remover.

Used and recommended by all the leading artistes, including The Two
 Bobs, Ernie Mayne, Miss Victoria Monks, Shaun Glenville, and scores of
 others too numerous to mention.

*Put up in specially designed tins (containing about 11 oz.)
 to Retail at 2/- per tin.*

Trade Terms: 18/- per d'zen CARRIAGE PAID.

Net Monthly Account.

7½% off for Cash within 7 days.

From the Sole Inventor and Manufacturer,

ARCHIBALD MOLE-FLOYD,
The Leroza Theatrical Stores,
71, 73 & 75 Cambridge St., GLASGOW.

STRODONIA

Vanishing Cream.

NOW SUPPLIED IN
ALUMINIUM
SCREW - CAPPED JARS.

10½d. size—7/6 doz. 1/3 size—10/6 doz.

FROM LONDON WHOLESALERS.

Direct orders value £5, subject to 1 doz. 1/3 size Bonus for
 window display and 5% discount cash, one month; £2 10/-
 subject to ½-dozen 1/3 size Bonus for window display, net;
 £1 10/- subject to ½-dozen 1/3 size Bonus for window display, net.
 Carriage paid on £1 10/- upwards.

STRODE COSH & PENFOLD, Broadmead, BRISTOL.

LINDOL

ANTISEPTIC

Dental Cream and Dental Powder YIELDS $133\frac{1}{2}\%$ PROFIT.

Are you stocking any other line which shows you such a handsome return for selling? We unhesitatingly say there is none.

REMEMBER ALSO THAT THE QUALITY HAS NOT BEEN SACRIFICED IN ORDER TO PROVIDE THIS ASTOUNDING PROFIT.

	Min. Retail P.A.T.A.	Price per Doz.	Profit on Outlay
DENTAL CREAM.			
In tubes $4\frac{1}{2}'' \times 1''$, in cartons ...	1/-	5/10	112$\frac{1}{2}\%$
In tubes $4'' \times \frac{3}{4}''$, in cartons ...	7 $\frac{1}{2}$ d.	3/8	112$\frac{1}{2}\%$
DENTAL POWDER. In tins ...	1/-	5/6	126$\frac{1}{2}\%$
" " " " " ...	7 $\frac{1}{2}$ d.	3/4	133$\frac{1}{2}\%$

Terms.—Monthly account $2\frac{1}{2}\%$ discount. Cash with order, an additional $1\frac{1}{4}\%$ discount. Minimum direct parcel:—50/-, unless cash is sent with order.

You can obtain "LINDOL" from your usual wholesaler on these terms for any quantity, however small.

Selling Agents for the Provinces, Ireland and Export:—

Messrs. PATTINSON & MACKIE, LTD.

Albion House,
59 New Oxford St.,
London, W.C.1.

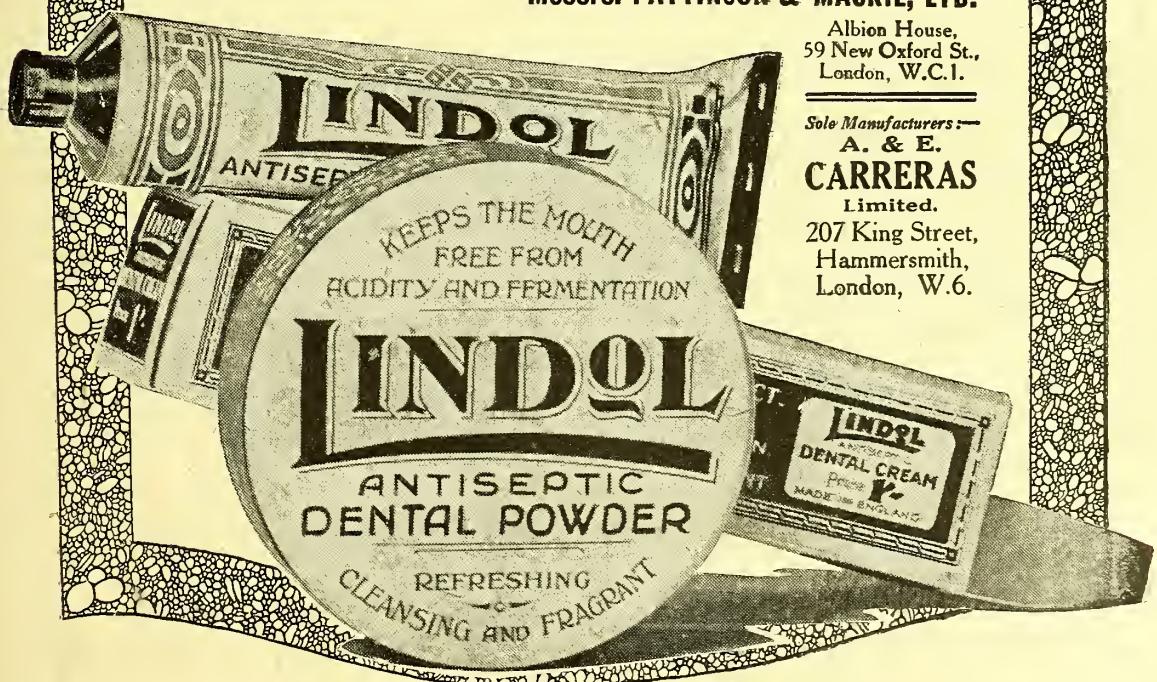
Sole Manufacturers:—

A. & E.

CARRERAS

Limited.

207 King Street,
Hammersmith,
London, W.6.



THREE GOOD SELLERS THAT PAY WELL

FROZOCLONE

(The original solid Eau de Cologne).
(Regd.)



THE WORLD'S GREAT
PERFUME AND
REFRESHER IN
SOLID FORM

Retails (P.A.T.A.)
Minimum - 3/6
giving at least 10d. Profit
on each sale.
32/- - - per doz.

For EXPORT quantities of
not less than four gross a
substantial drawback al-
lowance will be made.

FROZOCLONE is a convenient form of the finest Eau de Cologne, refreshing when rubbed on the forehead, equally pleasant as a smelling bottle, invaluable in a heated atmosphere and when motoring.

CARNATE (Regd.)

A NAIL POLISH PASTE with new and distinctive features. Antiseptic—Softens the cuticle—Brilliant and lasting polish.

Retails (P.A.T.A.) minimum 1/9; 15/- per doz.

ANALAX

(Reg. Pat. No. 310716)



The Ideal Fruity Laxative in Pastille Form.
DELICIOUS. RELIABLE. EFFECTIVE.

Retail (P.A.T.A.) Minimum 2/3
21/- per doz., stamped.

R. DEMUTH'S LABORATORIES,

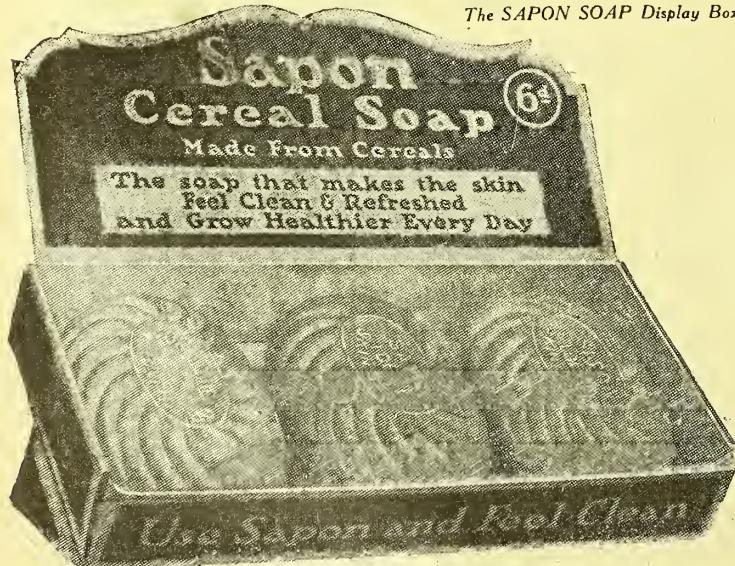
Telegraphic Address: "Bouibene London."

68 Salusbury Road, and
Montrose Avenue, LONDON, N.W.8

Telephone: 525 Willeden.

THE BEST SOAP PROPOSITION Some Suggestions to the Trade.

The SAPON SOAP Display Box



Overstocking your shop is a bad policy. To be "out of stock" is equally bad. You lose prestige, and profits drop, because dissatisfied customers are quick to go elsewhere.

Therefore we urge all customers who are building up a sale for

SAPON SOAP

to send small orders often.

Although our Works are going full pressure, demand is so great that we are unable to guarantee prompt delivery on receipt of order. Our many friends will greatly assist us, therefore, by anticipating requirements by a month when possible.

Remember, we are in no way connected, directly or indirectly, with any combine of Soapmakers.

"Sapon" Soaps show you a better profit than other makes.

Send for price list and full particulars.

SAPON SOAPS, LTD., London Bridge, E.C.4.

Forhan's is Recommended by Professional Men

Forhan's For the Gums is a refreshing, healing dentifrice prepared for the prescription of the dental profession by R. J. Forhan, D.D.S.

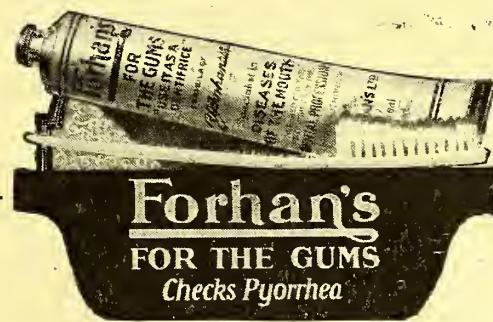
As a preventive for Pyorrhea, for which it was formulated, there is no other dentifrice like Forhan's. Even if Pyorrhea has already started its ravages Forhan's For the Gums used in time and used consistently will halt its progress.

A steady, consistent sales campaign, with widespread advertising in newspapers and magazines, is advising your customers at the first sign of Pyorrhea to visit their dentists, and to use Forhan's regularly, day by day.

These sufferers will find in Forhan's not only instant relief but also a power to keep their teeth white and clean, their gums firm and healthy.

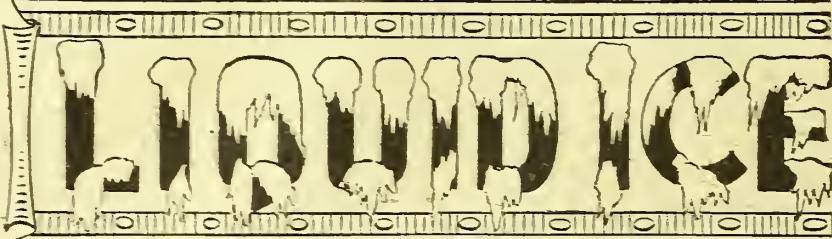
Prepare now to take your share of profit from the growing demand for Forhan's by ordering a stock to-day. It comes in convenient tube form. Prices and trade information on request.

Thos. Christy & Co.,
4-12 Old Swan Lane, London, E.C. 4.





An extensive Advertising and Publicity Scheme
is now in operation on behalf of



ANTISEPTIC TREATMENT OF ALL KINDS
OF FEVERS.

A simple, natural and scientific external remedy for all Zymotic Diseases, Influenza high temperature, Headaches from all causes, Sunstroke, the various forms of Rheumatism and Gout, Neuralgia, Sciatica and Lumbago, Bruises, Sprains and Contusions.

2 - Size 18 - per doz.
3 - " 27 - "
5 - " 45 - "

Carriage paid for not less
than three dozen.

Less 5% for window shows. Attractive show cards supplied. A steady regular sale ensures 40% profit on cost.

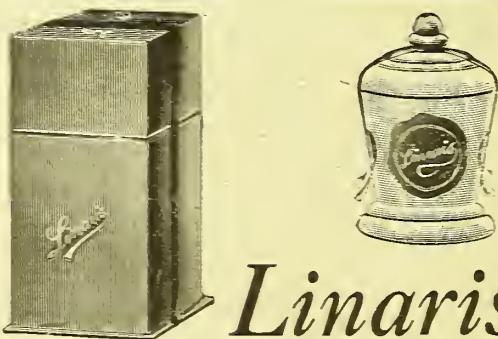
Manufacturers: LIQUID ICE CO., LTD., 100 Jermyn Street, London, S.W. 1.

Perspiration Troubles
LET US SEND YOU BUSINESS

There is a growing demand for Dulc-o-do, the toilet water which corrects excessive perspiration and obviates the use of dress shields. A doctor writes: "I find it a splendid preparation." Send 20 - for a trial dozen 2/6 bottles and showcards, your name will then be placed on our depot list and all future inquiries from your district will be directed to you.

Dulc-o-do
Corrects Under-Arm Perspiration

Scott's Chemical Co.,
47, Huddlesford Rd.
London, N.W.2



Linaris

BATH POWDERS
FACE POWDERS (all tints)
SKIN FOOD
BEAUTY CREAM
TONIC CREAM
VANISHING CREAM
BATH SALTS, etc. etc.

Linaris
Dept. I
31 Westbourne Grove
W.2.





WAVCURL

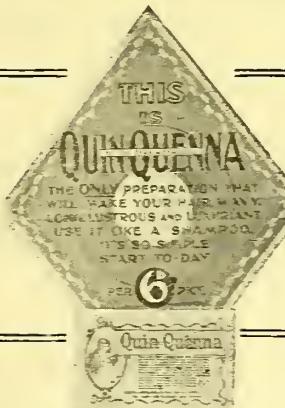
THIS article has now been sufficiently long before the public to enable them to sample its merits. This the public have done on a large scale, and many delighted users have come again and again to the retailers they buy from for further supplies. The demand has been extraordinary. At first the proprietors tried to cope with it per post, but they soon saw that this was too cumbersome and tedious a method, and they are now gladly availing themselves of the services of the trade. Wavcurl is a first-class seller and a first-class payer, too. The profits are all they should be on a toilet line, as any reader can see for himself in the P.A.T.A. Protected List. Forty per cent (40%) should surely awaken your interest, especially in a line that sells at sight. All classes of ladies, from the titled dame to the busy factory worker, are using it as their readiest means of keeping themselves attractive, notwithstanding the great demand there is just now upon their time. To the user it is a great time-saver; to the seller, a great money-maker. We invite your application for Showcards and Dummies for window-dressing. A Wavcurl window-show in an industrial or factory area will simply make the shillings shower into your till. Address post card to

THE WAVCURL CO.,
FULWOOD HOUSE, HIGH HOLBORN, W.C.1

	Per doz.	Per doz.
1/6 Wavcurl (in packets) ...	9-	1/6 Duvetine (Superbulous Hair Remover) ... 9-
2/9 Wavcurl (in bottles) ... 21-		1/6 Wavcurl Hair Tonic (in Powdered Form) 9-
1/6 Complexion Cream ... 10/-		1/6 Eyelashine ... 9-
2d. Shampoo Powder ... 15/- gross.		Showcards for Window 10- Dummies for Show 1/- charge

Agents: PARIS.—A. W. Scott, 38 Rue du Moné Thabor. CANADA.—W. W. Barry, 1 Port Street, Montreal.

75%
ON
COST



THE "DIAMOND" KEEPS THE COUNTER BUSY especially now—so does the big advertising. A woman always stops, looks, reads the "Diamond" message, and it is a rare occurrence if she doesn't come in for a packet. Every Chemist speaks highly of our "Diamond," so will you if you try it.

4 per P.A.T.A. 6d. Profit 75%
doz. each.
LET US SEND YOU AT ONCE
6 doz. and 1 doz. Boxes in decorated
Show-cutter, along with "Diamond"
wrappers, and other unique selling aids.
You can't afford to miss the trade at
your door.

Quin Quenna
BETTER THAN A SHAMPOO

THOS. CHRISTY & CO., 104 Swan Lane, E.C.4

LOTOZONE

SHAMPOO DE LUXE

A superior tonic and hygienic Shampoo at a popular price. Packed in dainty slide cartons. Elegant in appearance and delightful in use. Perfumed with Irish Elegance. Counter boxes supplied.

Full particulars on request.

THE EVAN WILLIAMS COMPANY, LIMITED, 18 Ogle Street, LONDON, W.1.

TOILET PREPARATIONS

LOTOZONE TOOTH PASTE
LOTOZONE CREAM
LOTOZONE FACE POWDER
LOTOZONE POWDER PAPER

The Shampoo Salesman, free on application, gives full details of prices and profits.

Delphinus

TOILET PREPARATIONS

Face Cream, Dental Cream,
Brillantine (Solid & Liquid).
Pomade Hongroise, Nail Polish.
Shampoos, etc.

Products of
Unvarying
Excellence

Prepared by
The Delphinus Mfg. Co.
46 Edward Street, Brighton.
Cables & Wires: Hongroise, Brighton.

We do not incur heavy expenses
in advertising to the public, but
prefer to give our Clients the
benefit of increased profits.

Sole Agents for Scotland :

Messrs. HENDRY & SMITH & Co.
83 Renfield Street, GLASGOW.

BE WISE! *Write us*
TO-DAY.

Delphinus

TRADE MARK

TWO DAINTY LINES
THE BEST ON THE MARKET.



Actual size.

Now in Stock.
Packed in Pre-war Style Alu-
minium Hinged
Boxes enameled
finish, and Show
Boxes of 1 dozen.
Per 6 - doz.



In Screw-top Boxwood Cases and
Outers of 1 dozen, with Showcards.

Per 4' - doz.

Manufactured by

SOLPORT BROS., LTD.
184-190 Goswell Road, London, E.C. 1
Obtainable through all Wholesale Houses.

FOR LARGE BUYERS.

BRILLIANTINES

ALSO

Dry Shampoo (Liquid), Bay Rhums,
Toilet Paraffins, Lime Creams,
Shaving Sticks, Tooth Powders,
Dental Creams, Vanishing Creams,
Shampoo Powders, Pomade
Hongroise, and all Toilet Goods.

**LOW PRICES for
HIGH QUALITY.**

C. A. STOKES & CO., Ltd.

Manufacturing Chemists and Perfumers,

11 ECLIPSOL WORKS, BRISTOL.

BEWARE !!

ANTHRAX

Is an EVER-PRESENT DANGER !

Be on the safe side and stock

NONE BUT OUR SHAVING BRUSHES

and Camel Hair Pencils.

All Guaranteed FREE of ANTHRAX.

We also stock

COMBS - PUFFS - BAG PUFFS
Bone and Ivory NAIL FILES, and
all Manicure Requisites and Sets.

Wholesale and Export only Supplied.

A. E. DEPRETER,
24 HOLEBORN, LONDON, E.C.1

Phone. Holborn 3182. Grams: "Aedeprelon. Smith. London."

You will Save Time, Trouble and Money
by sending your inquiries in the first place
to the men who know their Trade.

H. MILLS & SONS,
The Premier Chemists'
SHOPFITTERS,
Designers and Manufacturers,
163-165 Old Street, London, E.C.

We have a world-wide reputation for designing
and fitting up-to-date Pharmacies.

Large Stock of Second-Hand Chemist Fittings always in Stock.

Gold Medal

•Gloria^{Regd.}•
Tooth Brushes

No loose hairs
guaranteed.

BIDWELLS Limited

Castle Mills,
AXMINSTER, DEVON.

CHEMISTS' OVERALLS

From GARDINER & CO.

We supply protective overalls in any colour or style required. They
are made by experienced hands for all branches of the Chemical trade.

KHAKI DRILL	•	16 9	21-	26 6
WHITE DRILL	•	17 6	19 6	
BLACK DRILL	•	19 6		

Sizes 34, 36, 38, 40, 42 and 44 inches over waistcoat.

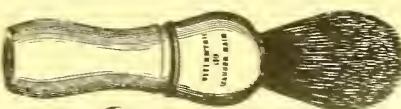
SPECIAL QUOTATIONS FOR QUANTITIES.

GARDINER & CO. (THE SCOTCH HOUSE) LTD.
1 Commercial Road, E.1.
EST. 1859. Phone: AVE. 6650 (4 lines).

Titterton's

Celebrated
TOILET

Brushware



TITTERTON & HOWARD, Brush Manufacturers, 8 & 10 Great Titchfield St., London, W.1.
FACTORY: ALBION WORKS, DALSTON LANE, E.8.

BRUSHES

The Holiday Season is in full swing, and articles for the Toilet are in constant demand. The following items are strongly recommended as good sellers—try an assorted parcel.

HAIR BRUSHES—

No. 553. Satinwood back	...	...	12 rows, bristle	...	...	per doz.	45/-
„ 554.	„	„	11 „	„ long cut	„	„	57/-
„ 555. Ebonised wood	...	...	10 „	„	„	„	57/-
„ 561. Real ebony	...	...	9 „	„	„	„	102/-
„ 557.	„	„	18 „	„	„	„	108/-
„ 550.	„	„	11 „	„	„	„	126/-
„ 558. SPECIAL LINE	„	„	8 „ whalebone	„	„	„	36/-

NAIL BRUSHES—

No. 501. Polished wood backs, assorted bristle and fibre	...	...	...	...	per doz.	8/6
„ 504. „ with handle	„	„	„	„	„	8/-
The "Orlvara," octagon shape	...	...	...	„	„	9/6

TOOTH BRUSHES—

Bone handles	...	4 rows	...	per doz.	No. 700	No. 701	No. 702	No. 705
Celluloid handles	...	4 rows	...	per doz.	6/-	7/-	8/-	10/6

SHAVING BRUSHES—

Bone handles, hog hair	...	...	...	...	...	per doz.	14/-
imitation badger	„	„	„	„	„	„	18/-

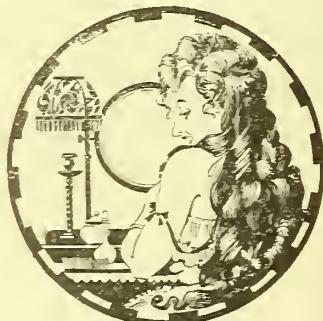
 New Illustrated Price List post free on application.

BURGE, WARREN & RIDGLEY, LTD.
91/92 GREAT SAFFRON HILL LONDON, E.C.1

GOOD ILLUSTRATIONS

that help the advert. to appeal to the right people are a gilt-edged investment. They ensure good results from your advert. Our Business Bringing Blocks merit their name. Write to-day for list.

CHEMISTS'
DESIGN SERVICE,
12 Chamberlain Gate, LEICESTER.



R.331.A 4/-

LARGE STOCKS OF
ARTIFICIAL EYES

CLINICAL & INDUSTRIAL THERMOMETERS,
READERS & MAGNIFIERS, EYE SHADES, EYE
— BATHS, HEARING INSTRUMENTS, ETC. —

Catalogues upon application to
JOHN BAIRD, Wholesale and Manufacturing
Optician,
68 & 70 MITCHELL STREET, GLASGOW.

Get what
you pay for

Don't let the money you spend on Corks be frittered away.

Get your Corks from a Cork Firm who can "deliver the goods"—who will supply you with Corks you can use—Corks with a guarantee.

10% waste means 10% extra cost to you. Get what you pay for. Order

PYRAMID CORKS

—then you're sure. This sign guarantees them.



N. W. Mitchell & Sons, Ltd.

"The Cork Firm,"
LIMEHOUSE, LONDON, E. 14.

Special Offer!

INDIA-RUBBER SPONGES

British Manufacture.

Natural Colour.

Fine Turkey Texture.

Sizes 2, 3 and 4.

ROUND OR OVAL.

12/- per lb. 7 lb., 11/- per lb.

Post Free.

HALL FORSTER & CO., LTD.

NEWCASTLE-ON-TYNE.

Wholesale & Export only

Get in touch with US for

COMBS

of every description

in

HORN,
VULCANITE,
GALALITH

AND

CELLULO D.

VERNON POWELL LTD.
The Comb Specialists,
9 & 10 ST. ANDREW'S HILL, LONDON, E.C. 4

3 POINTS:

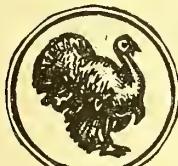
- ¶ RELIABLE QUALITY
- ¶ LOW PRICES
- ¶ DELIVERY FROM STOCK

Write for prices to-day.

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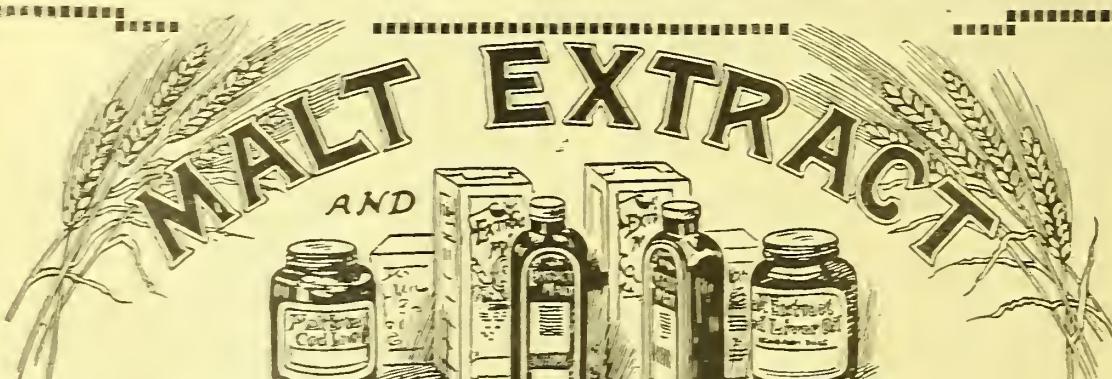
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Coming Events.

Monday, July 19.

British Pharmaceutical Conference, Liverpool, at 8 P.M. Reception by the Lord Mayor and the Lady Mayoress at the Town Hall.

Tuesday, July 20.

British Pharmaceutical Conference, Liverpool. At 10.15 A.M., opening session. At 1 P.M., luncheon. At 2.30 P.M., science and practice sections. At 7 P.M., dinner.

Wednesday, July 21.

Ucal Federation, Holborn Restaurant, London, W.C., at 2.30 P.M. Meeting of Ucal chemists, to be addressed by Mr. Harold Miller. A meeting will also be held on Thursday.

British Pharmaceutical Conference, Liverpool. At 10 A.M., science and practice sections. At 1 P.M., luncheon. At 2.15 P.M., closing session. At 3.45 P.M., river trip by invitation of the White Star Line. At 8.15 P.M., smoking concert.

Thursday, July 22.

British Pharmaceutical Conference, Liverpool, at 8.30 A.M. Excursion to Betws-y-Coed.

London Chemists' Golfing Society, Old Ford. Carmichael Trophy. 18 holes. Medal play.

Friday, July 23.

British Pharmaceutical Conference, Liverpool. Golf competition at Formby. At 2.15 P.M., excursion to Southport.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Philip's "Standard" Retail Price List.

The following are among the alterations and additions in the current issue of Philip's "Standard" Retail Price List: *Drugs*.—Ac. citric, pulv., 9d. oz.; acid. tannic., 1s. 6d. oz.; anthem. flor. exot., 3d. oz.; camph. flor., 1s. 7d. oz.; creta c. camph., 12½ per cent., 4d. oz.; hyd. ammon. pulv., 1s. 6d. oz.; iodoform, pulv., 10d. dr.; lin. camph., 7d. oz.; lin. camph. amm. meth., 6d. oz.; lin. terebinth., 4½d. oz.; methyl salic., 1s. 4d. oz.; ol. caryoph., 5½d. dr.; ol. junip. bacc. exot., 8d. dr.; ol. limonis, 2½d. dr.; ol. ricini opt., 3d. oz.; ol. terebinth., 2d. oz.; 3s. 1d. pint; pot. brom., 8d. oz.; sach. lact. opt., 3½d. oz.; sp. camph., 11d. oz.; tinet. benz. co., 9d. oz. *Lozenges*.—Black-currant, 6d. oz.; ginger, 4½d. oz.; soda-and-ginger, 5d. oz. *Packed Goods*.—Liquid paraffin, 4-oz., 1s. 2½d.; 8-oz., 2s.; toilet paraffin, 2-oz., 1s., 6-oz., 1s. 10½d. *Compressed Tablets*.—Amm. quin., 1-dr., 25, 1s. 3d.; case. sag. ext., 2-gr., 25, 6d.; pepsin, 2-gr., 25, 1s. 1d.; quin. sulph., 2-gr., 25, 1s. 8d.

Attention is called in a note in the List to the new address, 258 Pitsmoor Road, Sheffield, and to a new page of sundries.

Industrial Notes.

Drug Trade Industrial Council.—The first meeting this year of the Committee appointed on April 16, 1919, to consider the formation of a Drug-trade Industrial Council was held last week. Very little progress was made with the draft scheme, and it is probable that no more will be heard of the project. The original idea was to include all sections of the drug-trade, manufacturing, distributive and professional (C. & D., April 26, 1919, p. 75).

Boot and Floor Polish Order.—The Minister of Labour has given notice that he intends to apply the Trade Boards Acts 1909 and 1918 to the boot and floor polish trade, which is defined as follows:

- (1) The manufacture of boot or shoe polish or cream, blacking, dubbin, or floor polish or cream; and
- (2) the manufacture of stain for leather, or of polish for leather or furniture, when carried on in association with or in conjunction with the manufacture of any of the articles specified in paragraph (1) above, including the following or similar operations when incidental to operations included in paragraph (1) or (2) above:
 - (i) Checking, testing, grading, weighing, measuring,
 - (ii) Filling, lidding, boxing, bottling, packeting, labelling,
 - (iii) Packing, unpacking, despatching, warehousing, portering, time-keeping, storing, stock-keeping; but excluding the manufacture of boxes, canisters, or other containers.

Too Many Trade Boards.—A deputation from the National Amalgamated Union of Shop Assistants, Warehousemen, and Clerks waited upon the Minister of Labour last week to discuss with him the question of reducing the number of Trade Boards in the distributive trades to the lowest possible number. It was pointed out to the Minister of Labour that the creation of a large number of Boards where one would effectively serve the purpose unnecessarily adds to the expense in connection with these Boards. The Minister of Labour in his reply stated that personally he strongly favoured the lines laid down by the deputation, and thought the number should be curtailed as much as possible, but he further stated that the legal opinion which the Department had received did not favour bringing different sections of distribution under one Board.

The Rexall-Boots Combine.

"The Daily Mail" during the week has given some particulars of the formation of Liggett's International, Ltd., which is to combine the American and British businesses carried on by the United Drug Co. and Boots, Ltd. The future management of the company is explained as follows:

The chairman of Liggett's International, Ltd., will be Mr. Liggett himself, and the executive director Mr. George M. Gates, who will also represent the company on the English board. Sir Jesse Boot will be a Vice-President and also chairman of the English company. Mr. J. J.

Allen, Ottawa, and Mr. J. W. Staples, general manager of the American company, will also be Vice-Presidents. "The last thing we want to do is to Americanise England," said Mr. Staples to "The Daily Mail" correspondent. "We see in this transaction great opportunity for co-operation between the countries. What England would like to have from us we shall give her. There will be no pushing anything American simply because it is American either in Canada or Great Britain." Altogether the new gigantic combination will have an authorised capital of \$35,000,000 (nominally 7,000,000*l.*) of 8 per cent. 10*l.* cumulative preference stock, \$10,000,000 (2,000,000*l.*).

Public Institution News.

The following tenders have been accepted by the bodies named :

Hemsworth Guardians.—Mr. G. Hodgson, chemist and druggist, drugs.

Wrexham Guardians.—Francis & Co., chemists, drugs, etc.

At the meeting of the Lewisham Board of Guardians on July 12, it was decided that the time had arrived for the abolition of the practice whereby drugs are supplied to the outdoor sick poor by the district medical officers. It had been ascertained that certain chemists in each district would be prepared to assist the Guardians in the proposed scheme; and it was suggested that the Pharmacopoeia and schedule of prices issued by the London Insurance Committee from time to time should be the basis of the scheme. It was agreed that, subject to the approval of the Ministry of Health, all such drugs, etc., shall be supplied by these chemists upon this basis. Seventeen chemists have agreed to undertake the work.

The "Script" Bowling Tournament.

East versus North was one of the chief attractions at the Poplar charity fête, held on July 8, and a great contest it turned out to be. Like the Westerners a few weeks ago, the Northerners met their Waterloo. The "Corporal" was quite outplayed by the Bowie-Rawlins combination. Duncan Bowie was continually laying on the jack, while Rawlins's skittling generally came off. However, on the other rink the Eastern made amends, and the redoubtable champion Burgess Dow failed to show his true form against his countryman, George Wilson, who was ably backed up by his side. Play was as follows :

EAST.

North.

No. 1 Rink.		
W. Wood		D. Anderson
H. J. Whitehead	35	F. W. Perrett
W. Main		J. McRostie
G. W. Wilson (skip)		W. B. Dow (skip)
No. 2 Rink.		
W. H. Lawrence		G. W. Bowie
J. Angus	12	C. T. Bennett
A. Styles		A. T. Honiatt
A. R. Keith (skip)		F. Rawlins (skip)
	47	—
		40

In the singles competition, A. R. Keith was defeated by A. Grassick, who was in excellent trim and won by 21 to 7.

Poisonings.

The following cases of fatal poisoning have been recorded since our last report :

At Chirk, on July 8, the inquest on the body of Winifred Burgoyne, who died after taking a large quantity of quinine (*C. & D.*, July 3, p. 66) was concluded. A report of the analysis, made at Birmingham University, of certain organs was read, and its findings were stated by a medical witness to be consistent with death from an overdose of quinine. A verdict in accordance with the evidence was given.

An inquest was held in Fulham, London, S.W., on July 9, on the body of Mr. Ralph Nicholls, chemist and druggist, 351 Fulham Palace Road. It is understood that Mr. Nicholls disposed of the chemist's business at that address some months ago, continuing, however, to reside over the shop. The evidence showed that on July 6 he was found dead in bed, and that death was due to hydrocyanic-acid poisoning. A verdict of "Suicide during temporary insanity" was returned.

Inquests.

An inquest was held at Guildford, on July 10, on the body of Mr. Edward H. G. J. Orange, chemist and druggist, 25 High Street, Aldershot. It was stated in evidence that while cycling in the neighbourhood he was knocked down by an Army ambulance van travelling at the rate of thirty-five miles an hour. The inquest was adjourned.

An inquest on the body of James Payne, a retired book-keeper, was concluded at Weymouth on July 12. The evidence showed that the body was found lying in gorse near Dorchester, and that in one of the deceased's pockets were some powders labelled "Vermin-killer." It was stated by Mr. F. Hudson-Cox, Ph.C., analyst, Weymouth, that there was strichnine in them. He also found $\frac{1}{2}$ gr. of strichnine in the stomach. There was no evidence that the man had had convulsions or that there was any facial distortion, and a verdict was returned to the effect that he died of heart disease and exhaustion.

Birmingham.

The temperature in this city at 1 p.m. on July 12 was 47° F., instead of the usual 74° F.

A portrait in oils of Professor P. F. Frankland has been hung in the hall of Birmingham University.

Several shop-fronts, including those of some of our central-area pharmacists, are undergoing redecoration.

It is said that a Birmingham housewife, contemptuous of the claims of popular vermin-killers, has invested in a guinea-pig.

Dissatisfaction has been expressed locally concerning the number of hours that students are required to spend in retail pharmacies.

Two local business men, having missed their train back from London the other day, hired an aeroplane and arrived home with time to spare.

Birmingham has sent up for the Qualifying examination over a hundred candidates, about half of whom are from the recently established school of pharmacy.

Mr. Wilfred Southall, Ph.C., President of the Midland Adult School Union, performed the ceremony of opening new premises for the Union at Bewdley on July 10.

Considerable comment has appeared in the local Press over the new by-law which prevents young children from doing light work and running errands for tradesmen in future.

Mr. C. J. Woodward, the veteran teacher of chemistry, has presented to the city council an interesting volume of cuttings relating to the Birmingham Philosophical Institution.

Mr. H. W. Bland, son of Mr. J. W. Bland, chemist and druggist, Moseley Road, has advanced another stage in his medical career, having just passed the second examination for the M.E., Ch.B. degree.

Among the pharmacists who gave part or the whole of their takings on July 9 to "St. Dunstan's" were Messrs. J. W. Shields, T. W. Lowther, C. Thompson, T. H. Foden, C. T. Thonger, George Knowles, and Marshall Brothers.

Mr. Henry Baignton, who has achieved considerable success locally as a Shakespearian actor, is the second son of Mr. Baignton, the proprietor of a photographic and optical business in New Street. Mr. Baignton, sen., was in the wholesale drug-trade some years ago.

Local patriotism, as one of our statesmen once called it, has been shown in the flow of congratulations sent to the President of the Birmingham Pharmaceutical Association on his election to the Council of the Pharmaceutical Society. It is understood that the flow has hardly ceased yet.

At the Degree Congregation held on July 10, the Lord Mayor (Alderman W. A. Cadbury), Alderman F. C. Clayton, Ph.C., Dr. Coole Kneale, and Mrs. Bayliss Elliott were present. The new chemistry professor, Dr. Morgan, was presented with the degree of Master of Science; the

new principal, Mr. Charles Grant Robinson, received the degree of Master of Arts; and Sir Thomas Beecham was awarded that of Master of Music.

Liverpool.

Mr. W. H. Gilmour, a well-known Liverpool dentist, has been appointed to the chair of dentistry at Liverpool University—the first appointment of its kind, it is understood, in the country.

Mr. T. Fell Abraham, Ph.C. (Clay & Abraham, Ltd.), has retired from active work in the pharmacy, but retains his seat on the board and attends its meetings. He is succeeded in the management of the retail department by his son, Mr. John Abraham, chemist and druggist.

At a Liverpool inquest, held on June 14 on an aged man, a retired warehouse clerk, it was found that death had been accelerated by drinking methylated spirit, a bottle of which was found in the bed occupied by him in the convalescent home where he died. The coroner ordered an inquiry into the source of sale of the spirit.

The following Conference items are grouped together for convenience of reference: Evening dress is optional at the reception to be given by the Lord Mayor on July 19.—Mrs. Ashcroft (President) and Mrs. Ferriday (secretary), of the Liverpool Ladies' Committee, have been most assiduous in their efforts to obtain new members for the Conference.—Mr. W. J. Williams (assistant secretary to the Conference Reception Committee) has made so many visits to the caterers of late that nothing should be lacking in this department.—By the unanimous desire of the local Executive Committee of the British Pharmaceutical Conference, Mr. E. T. Pearson, Press Club, is acting as honorary press agent during the Conference week (see p. 52).

Fresh from his world-tour, Mr. W. H. Saunders (chairman of Ayrton, Saunders & Co., Ltd.) made a significant speech at the annual dinner of the Liverpool Trade Protection Society on July 7. On the wider aspect of credit Mr. Saunders made the following observations: "It is sometimes thought that credit and confidence apply only to banks, manufacturers, large wholesale dealers, insurance companies, etc.; this, however, is not so: credit and confidence are absolutely as necessary for the retail trader as the wholesale one—in fact infinitely more so. Credit and confidence are built up very, very slowly; they are not the growth of a month or a year, but the result of straightforward, honest dealing year after year. . . . I always maintain that with one's bank, one's lawyer, and one's doctor, one should have no secrets; and the same remark applies to one's wholesale houses and manufacturers—it pays over and over again to be perfectly straightforward in one's dealings with them. . . . The American business man realises—more, in my opinion, than we do—what big factors in his affairs credit and confidence occupy, and gives the various trade protection societies all possible information concerning his business."

The directors and staff of Evans Sons Lescher & Webb, Ltd., have united in recognition of the unique record of service (over fifty-seven years) of Mr. William Wellings, who has just retired. At the presentation ceremony Mr. William P. Evans (chairman of the company) presided, all the Liverpool directors being present, while wires of congratulation were received from the London directors, from Mr. Joseph Holden (South America), and from other distant representatives. The chairman handed Mr. Wellings a cheque in the name of the board, and an upright grand pianoforte was also presented to him on behalf of the staff. Mr. C. F. Malvern (general manager) testified to the fine example set by Mr. Wellings, and Mr. William Brinson endorsed the tribute. In reply, Mr. Wellings thanked the chairman and all present. He said he was engaged by the chairman's father (the late Mr. Edward Evans) when the staff of the firm numbered but forty. During the war Mr. Wellings took the place of travellers in the home counties and the Isle of Man. It may be recalled that a presentation was made to him on the occasion of his jubilee (*C. & D.*, II., 1913, p. 819). A portrait will be found in our issue of June 26, p. 165.

Manchester.

Mr. J. Johnson, who for some time past has been managing director of the old-established sundries house of John Quilliam & Co., Ltd., Canterbury Works, Victoria Bridge, is now sole proprietor of this business.

The demand for methylated spirit among chemists in Manchester and district during the past week has been enormous, owing to a large number of residents having to fall back on spirit stoves for warming and cooking purposes.

At the recent examinations held at the Victoria University, Manchester, Miss Dorothy Simmons passed the second examination for the degree of M.B., Ch.B., and Mr. H. Teasdale Simmons passed the first examination for this degree. These brilliant students are the children of Mr. E. H. Simmons, chemist and druggist, Chapel Street, Salford.

Mr. J. C. Maxwell Garnett, principal of the Manchester College of Technology, has resigned. The Manchester city council, at its last meeting, passed a resolution limiting the number of degree students to the college with a view to admitting boy students from the city. Mr. Garnett declares that this policy would make university work impossible. (See *C. & D.*, June 19, p. 39.)

Sheffield.

Mr. Henry Sagar, chemist and druggist, late of Darnall, has opened a pharmacy in Langsett Road.

Mr. G. B. Brook, lecturer in non-ferrous metallurgy to the University of Sheffield, has accepted the position of chief chemist to the British Aluminium Co., Ltd., Kinlochleven. Mr. Brook's connection with Sheffield extends over thirty years. He was trained under the late Mr. A. H. Allen, public analyst for Sheffield and the West Riding, and was the first lecturer in non-ferrous metallurgy at Sheffield University. During the war he was closely identified with the work of the Sheffield Munitions Committee, and subsequently in the establishment of the Wounded Officers' Training Department in non-ferrous metallurgy. His departure will be a distinct loss to the city of Sheffield, and also to the Sheffield Pharmaceutical and Chemical Society, to the proceedings of which he was an occasional contributor.

Miscellaneous.

AN EMPIRE EXHIBITION.—An Empire Exhibition, to be held with the object of demonstrating the resources and capabilities of the Empire and fostering inter-Imperial trade, has been proposed for the year 1923. Under certain conditions a Government grant of 100,000*l.* will be made towards the expenses. In that case, the Board of Trade would, as in the case of the British Industries Fairs, have certain rights in the management of the scheme. The exhibition is not being organised for profit, and any surplus available at its close will be devoted to some public or charitable object.

TELEPHONE RATES.—The Departmental Committee appointed to consider the question of telephone rates recommends a general increase. It is recommended that the flat rate, providing an unlimited service for a fixed charge, should be abolished, and that there should be substituted a fixed annual charge for the installation and a uniform fee of 1*½d.* for each effective local call. The new rate recommended for an exclusive line in London is 8*l.* 10*s.*; in Birmingham, Glasgow, Liverpool, and Manchester, 8*l.*; and in the provinces, 7*l.* 10*s.* The fee at public call offices is to be 3*d.*

IN THE COURTS.—In Wirksworth County Court, on July 8, judgment was given for 50*l.*, with costs, in a case in which compensation was claimed for the loss of two heifers which had eaten branches of a yew-tree weighted down by snow in an adjoining field.—At Bow Street Police Court, London, on July 9, Walter Rankin was sentenced to nine months' hard labour for obtaining 25*l.* from a Mr. Brooker by falsely representing himself to be a medical man who had invented a cure for cancer (*C. & D.*, July 3, p. 67).—At York Assizes, on July 14, the trial of Thomas Liddle for the attempted administration of chocolate containing strychnine (*C. & D.*, June 26, p. 131) was commenced.

Irish News.

Brevities.

The Belmullet Board of Guardians have decided that all articles supplied by contractors in future must be of Irish manufacture and must, if possible, bear the Irish trade-mark.

Members of the Ulster Retail Drug Association, by agreement, observed Monday, July 12, as a general holiday, and, in most cases, Tuesday also. The wholesale houses in Belfast are closed this week for the annual holidays.

At Coleraine Petty Sessions, on July 9, District Inspector McNally charged W. J. Baxter & Co., Ltd., chemists, Church Street, retailers of sugar, with having, in contravention of the Sugar Order, 1917, failed to keep correct and punctual accounts and records. Miss Violet Perry, Inspector under the Board of Agriculture, was examined. It was pointed out that defendants had their records entered up to about a fortnight before the Inspector called, and that since then a carters' strike in Belfast had complicated the matter. A fine of 1s., with ordinary costs, was imposed.

The Local Government Board have intimated to the Clonmel Board of Guardians that Mr. W. C. Harvey, chemist to the Clonmel Dispensary, should obtain the Board's sanction to his resignation, recently tendered, and also show that he was permanently incapacitated from doing his duty. A member said Mr. Harvey had been a faithful officer of the Board for many years, and his resignation had been accepted by the Guardians. He could also show that he was permanently incapacitated from work, and the only thing now necessary was to write for the formal notice of the matron to fix his superannuation. This course was agreed to.

Poisoning Charge.

Allegations of poisoning were made in an action at Fermanagh Assizes on July 8, in which James Maguire, Knocknadarragh, Swanlinbar, sued George Johnston, of Greenana, Swanlinbar, to recover 145'. 10s., "money had and received by defendant to and for the use of plaintiff, and converted by defendant to his own use." As the case developed charges were brought against the defendant of robbing and attempting to murder plaintiff by administering a large dose of mercuric chloride to him in his tea. The Judge stopped the further hearing of the case to enable it to be brought in another form at the next Assizes. The witnesses included Mr. Bernard Fagan, analyst under Sir Charles Cameron, Dublin, who said he had examined the contents of a bottle in question, which had contained a small quantity of tea, which was found to contain mercuric chloride in the proportion of 7 grains per oz. A medicinal dose of this poison was $\frac{1}{2}$ to $\frac{1}{4}$ of a grain, and from 3 to 5 grains would probably prove fatal. His Lordship: What are the symptoms? Witness: An acrid or bitter taste, a feeling of constriction in the throat, and as it went down a burning sensation. Vomiting and diarrhoea would probably set in. His Lordship: Then this man must have barely tasted it? Witness: He cannot have done more than put his lips to the tea to see if it were hot, and then, finding it bitter in taste, have put it down without taking any more of it. The Judge, as already stated, adjourned the case.

Scottish News.

Brevities.

Mr. Alexander Paterson, chemist and druggist, has removed from 29 West Church Street to 5 High Street, Buncie.

The Linlithgow Town Council has refused an application for permission to use the burgh coat-of-arms as a trade-mark.

A medical officer at the Dundee Asylum has been granted an increase of 200/- per annum in his salary, raising it to 900/-.

The bad weather has enabled chemists to bring their stocks of photographic goods up to normal. Several pharmacists are increasing their sales by advertisements in the local Press.

Mr. James McNiven, chemist and druggist, Alexandria, President of the Vale of Leven Traders' Association, presided over a luncheon on the occasion of an outing of the members and friends held recently.

Charged with having sold 2 oz. of cream powder (cream-of-tartar substitute) containing 40 per cent. of calcium sulphate, John Marshall & Sons, Falkirk, were fined 17. at the local Sheriff Court on July 12.

Mr. D. R. Steuart, F.I.C., F.R.S.E., chief chemist to the Broxburn Oil Co., Ltd., for forty years, was recently presented, on the occasion of his retirement, with an illuminated address and a cheque by friends in the trade.

Fife.

Baillie J. Peebles, J.P., chemist and druggist, Kirkcaldy, has returned to business after his recent illness.

The money allotted in this area for the payment of chemists' Insurance accounts for last year has proved insufficient, and an additional credit has been asked for.

Glasgow.

Mr. W. B. Rodger, 76 Virginia Street, has been appointed an agent for Jensen's cod-liver oil.

In Glasgow Sheriff Court, on July 9, two Chinamen were each fined 25/- for being in unauthorised possession of opium.

For selling razor blades made in Germany and bearing a forged trade-mark of the Gillette Safety Razor Co., two Glasgow firms, charged under the Merchandise Marks Act, were fined 20/- each on July 13.

A fire, causing damage to the extent of 14,000/-, occurred in the Royal Technical College on July 10. The flames were confined to a portion of the building used as a chemical store, the contents of which, consisting mainly of chemicals, glassware, and platinum vessels, were completely destroyed.

The Glasgow Pharmacy Athletic Club held the Cartwright Trophy Competition on Wellcroft Green recently, in good weather. Play was as follows:

G. McDonald	...	26	v.	J. Moir	...	6	=	20
H. G. Gray	...	25	v.	J. T. Simpson	...	12	=	13
M. Wallace	...	18	v.	C. B. Lee	...	8	=	1
H. P. Arthur	...	17	v.	A. G. Sutherland	...	16	=	1

The winners were W. Smith, A. M. Chisholm, J. Logan, and G. McDonald. The prizes were four gold badges, presented by W. B. Cartwright, Ltd., Rawdon. The next rink game will be played on Whitevale Green on August 3.

Business Changes.

THE business of T. Marris & Co., Ltd., chemists, Worksop, has been purchased by a brewery company. An on-licence is attached to the pharmacy.

MR. E. WILLIAMS, chemist and druggist, has purchased the branch business of Davies & John, chemists, at 25 Wellsway, Bath, of which he has been manager for several years.

THE ASSOCIATED SCIENTIFIC PRODUCTS CO., 5 Bloomsbury Square, London, W.C. 1, has removed to 59 Stamford Road, Brighton. Emergency orders for Halodide and No-Viddy can be filled by J. B. Hay & Co., 224 Piccadilly, London, W.

L. CHIONIS, chemists and wholesale druggists, Government Street, Smyrna, have transferred business connected with the wholesale branch to the firm of Chionis & Tiriakidis, 3 Passage Sofianopulo, which has been established in view of an increasing business in specialties. Mr. Nicolas Chionis and Mr. A. Tiriakidis have been appointed managers.

French News.

(From the "C. & D." Paris Correspondent.)

IPECACUANIC ACID.—The results of M. Hnerre's researches on ipecacuanic acid and its dosages in preparations are summarised in his statements that ipecacuanha powder contains 3 to 4 per cent. of the acid; alcoholic preparations contain all the tannin of the drug; and an aqueous solution of the acid is precipitated by a number of alkaline metallic salts added to saturation.

ARMY PHARMACISTS.—The question as to whether auxiliary Army pharmacists should be admitted as members of the Corporative Association of Pharmacists of the Reserve and Territorial Army has been considered at the general meeting of the Association and negatived. This decision was taken, it is stated, in the interest of the "auxiliaries." Every fully qualified ("first-class") civilian pharmacist has a right to become an assistant pharmacist major, so that every "auxiliary" can, and should, qualify for this rank, which opens to him the doors of the Association.

THE PREVENTION OF TETANUS.—Experiments made by MM. Heim, Fernbach, and Rullier on rabbits and mice seem to indicate that the development of tetanus and gas gangrene in textiles can be retarded, and even prevented, by suitable antiseptics. The most effective appears to be hydrofluosilic acid $7\frac{1}{2}$ per cent., alone, or mixed with $\frac{1}{4000}$ of sublimate or a first impregnation of the $7\frac{1}{2}$ -per-cent. acid followed by a second treatment in which 5 per cent. coal oil is mixed with the $\frac{1}{4000}$ sublimate. These experiments, made some time ago, were not divulged while hostilities lasted, and they are not conclusive. They may, however, suggest ideas for the treatment of the uniforms of combatants.

A HUGUENOT PHARMACIST.—During the wars of religion (M. Guiraud tells us in his Memoirs of the Archaeological Society of Montpellier) Jacques des Farges kept open shop in the centre of the town, Place des Cévenols. He had a prosperous business; his "fine new shop" had been honoured by the visit of King Charles IX.: his theriaca, "eau d'ange," and "pondre de senteur" were highly reputed. But in February 1569 arms and gunpowder were found in his cellar, in consequence of which he, his wife, and family were arrested. The strife between Catholic and Protestant was bitter, and des Farges was a Huguenot. Soon after his arrest a furious mob battered in the doors of the pharmacy and sacked furniture and stock valued at over 10,000 livres, after which they set fire to the house. Not content with this, the rioters terrorised the magistrates and burgesses into delivering the unhappy prisoner into their hands, and he was hanged on the charred beams of his own house.

CELESTIAL THERIACA.—Dr. Wickersheimer has unearthed a curious document regarding the "celestial theriaca" prepared at Strasbourg in the seventeenth and eighteenth centuries. Three centuries ago the Alsatian capital had five pharmacies. One business which had existed in the Grande Rue since 1527 passed into the hands of Frederic Stroehlin in 1694, in whose family it remained until 1779. Frederic put "on the market" the theriaca in question, advertising it as superior to all others. It is interesting to note that in 1720, when mithridate or andromaque (current electuaries) could be bought at 16 sous an ounce, the "celestial" product fetched 2 sous a grain. The document discovered by Dr. Wickersheimer is evidently a form of advertisement. The MS. (preserved in the Strasbourg Library) dates from 1744, and pictorially represents the scores of drugs and substances that entered into the composition of this product of polypharmacy. Each is figured literally or allegorically in watercolours, and the arms of the city, the portrait of Esculapius, Fame, and other embellishments complete the total.

M. LECLAIR has recently published some details of Parmentier's career at the Hôtel des Invalides. He was the first to obtain the post of Apothecary-Major by competitive examination, and Parmentier, who was then twenty-nine, held the post for six years. He received 600 livres, with lodging, light, and fuel (6 lots of wood, 100 faggots, and 72 lb. of candles). In 1767 the "Medi-

cial Formulas of the Royal Hotel of the Invalides in Latin and in French" were for the first time published, but anonymously. In 1772 the Administrative Council, anxious to retain his services, gave him a formal "brevet" and decreed that he should have complete control of the stock and supervise the dispensing. The Sisters of Charity who served in the pharmacy protested through their Superior, and the matter was carried up to the Council of State, which upheld the Sisters of Charity, and Parmentier resigned his post. The King, however, presented him with a bonus of 1,500 fr. (instead of the usual 800 fr.) and doubled his year's salary. He was also authorised to retain his quarters at the Invalides during his lifetime; but evidently did not profit by this permission, for he was living in the Rue des Amandiers-Popincourt at the time of his death (1813).

LIMITATION OF PHARMACIES.—The speech made by Professor Jadin at the opening of the school of pharmacy of the university in Strassburg has aroused considerable interest, owing to his advocacy of the principle of limiting pharmacies. "Before coming to Strassburg," he said, "I was aware of the high moral, professional and scientific standard of the pharmaceutical profession in Alsace-Lorraine. This has been fully confirmed since my arrival in the country, and I have no hesitation in stating that this is due to the laws regulating the exercise of the profession. It is owing to the fact that you have to obtain permission to open a pharmacy that you are enabled to exercise your calling with dignity and profit, not only for yourselves, but for the commonweal. The medical profession has confidence in you, knowing that competition is less keen, and it knows that you are able to devote yourselves to the many duties of your profession. In those countries where the number of pharmacies is not limited, commercial competition too often absorbs the whole attention of the pharmacist, the rules of deontology are no longer respected and the law itself is frequently circumvented. Pharmacy in France suffers greatly under the liberty it enjoys. I earnestly hope that the exercise of pharmacy will be regulated by a new law, based on limiting the number of businesses in a fixed ratio to the population, as provided by the Alsace-Lorraine pharmacy law of 1905. If this is realised, you will be rendering a great service to your regained country."

THE DEVASTATED AREA.—Chance took me through St. Quentin recently, and I had time to glance at the pharmacies in the main streets of that unfortunate town. Some shops, like the "Pharmacie des Halles," still stand gutted and abandoned. The "Pharmacie Normale de la Marine," with its sign of an anchor, is now a bazaar where picture postcards, perfumery, etc., are sold. The "Pharmacie du 8 Octobre," on the square of the same name, is a restaurant. A sign painted on calico announces that the "Pharmacie St. André" is open at No. 15 of the street of the same name; this was close to the cathedral, where the ruins seem thickest. In the rue de l'Isle (the main thoroughfare of the town) the "Pharmacie Deremetz" is about to move into handsome oak-fitted premises, but business is still being carried on in the shell-scarred private house a few doors away, with the red cross painted on its door. Others, like the "Pharmacie du Soleil," with its red exterior and white interior, its advertisements of Kodak sundries and surgical bandages, seem completely reorganised. Péronne has suffered even more than St. Quentin, and evidently no houses are available. The current local practice in such cases is to build some tiny shed or bungalow on what was once the backyard of the house—the Pharmacie Bourgeois is an example of this. The Pharmacie Chêne, on the Grand Place, is the neatest thing in wooden-pharmacies I have seen so far. With a nice white-painted show-window and roomy shop and back premises, it is a refreshing contrast to its neighbours—the shattered town hall, the rusty Nissen huts, and the stray "tanks." It was Roisel, a ruined village of under 2,000 inhabitants, that boasted a "Pharmacie Centrale"—the usual modest wooden shanty of these places now again struggling gallantly into life. A few miles further on are the St. Quentin Canal and what was once the Hindenburg Line.

Colonial and Foreign News.

CANADIAN TARIFF CHANGES.—As from May 19 a number of alterations have been made in the Canadian Customs and Excise duties. On potable spirits and cordials containing more than 25 per cent. of proof spirit, and in perfumes, toilet preparations, essences, extracts, tinctures, and medicines containing spirit the additional duty is \$2 per gallon; on lime-juice and fruit essences containing not more than 25 per cent. of proof spirit it is 50 cents per gallon. There is a tax of 30 per cent. on patent and proprietary medicines.

DEUTCH IMPORTS AND EXPORTS during the first quarter of 1920 included the undermentioned articles. The figures for the corresponding period of 1919 are also given. (Values in florins):

	Imports.	Exports.		
Cotton wool and surgical dressings	1919 14,050,000	1920 25,033,000	1919 276,000	1920 3,719,000
Sulphur	48,000	103,000		
Chemical products	6,472,000	10,081,000	1,051,000	4,029,000
Medicinal products	3,095,000	3,988,000	1,532,000	2,479,000
Colours and dye-stuffs	2,633,000	6,826,000	3,390,000	5,258,000
Turpentine	924,000	1,423,000	8,000	123,000
Cod-liver oil	9,000	922,000	—	5,617,000

PATENTS AND TRADE MARKS.—An Italian decree has been issued regulating the position of patents in consequence of the treaties of peace with Austria and with Germany. It is provided therein that any person having made use of a patent or trade-mark during the war, and which has now been claimed by its original owner, cannot be sued for wrongful use of the said patent or trade-mark, but shall be deemed to have acted in good faith during the period extending from July 31, 1914, to December 31, 1918. With regard to patents or trade-marks held by subjects of the nations recently at war with Italy, it is provided that those persons who received permission to make use of such enemy patents or trade-marks may freely continue to do so for a period of one year after the ratification of the peace treaties. After this period, the person may still continue to make use of the former enemy patent or trade-mark, provided that he enters into an agreement with the original (former enemy) proprietor as to the indemnity to be paid by him to the latter, and in the event of failing to reach an agreement on this point the indemnity to be paid will be established by one of three experts appointed for this purpose by the court of appeal in Rome.

PROPRIETARY MEDICINES IN POLAND.—By regulations, which are contained in an Order of the Polish Ministry of Public Health of April 1919, permits for the manufacture in Poland of compound pharmaceutical preparations, specifics, etc., and cosmetics (creams, pastes, powders, tooth-pastes and tooth-powders, toilet-waters, and mouth-washes, etc.) are granted by the Ministry of Public Health. In order to obtain a permit it is necessary to send to the Pharmaceutical Department of the Ministry for Public Health, or to the District Pharmaceutical Inspector: (a) Two samples of the preparation in the original packing; if the preparation is for sale in small packets only, then a sufficient quantity should be sent to enable the analysis to be made. (b) Payment for the analysis at the rate of 100m. and the compulsory seal-payment (Decree of February 7, 1919). Further particulars should be sent with regard to: (1) Form of the preparation, with an accurate account of its preparation; (2) its application and the method of use; (3) the retail sale price. Compound pharmaceutical preparations, specifics, etc., prepared abroad may be imported and sold only with the permission of the Ministry of Public Health, which will be granted in accordance with the above provisions.

GERMAN METHODS.—The Alien Property Custodian who took up all German industries in the United States during the war gives emphatic testimony, states "The Times Trade Supplement," that the great German dye-making firms had a deliberate policy of bribery. Bribery of dyers was carried on almost universally and on a

large scale. The head dyers of the various mills and other chief customers of the dye manufacturers were subsidised in many direct and indirect ways. These dyers frequently controlled the situation, since if any of them wished his superiors to cease using the dye of one manufacturer and buy the dye made by some other company, nothing was easier than to control the complicated process of dyeing in such a way that the dyes furnished by the house which was the least liberal to the dyer would produce wretched results. It was then an easy matter for the dyer to get the manager of his mill to try the dyes offered by the more liberal briber, and with the exercise of a little care the new dye would be sure to produce satisfactory results. So extensive was this corruption that the custodian came across only one American consumer who had escaped its ill-effects. The firm avoided the difficulty by having all its dyes purchased by the head of the company himself, under contracts providing that no barrel or package should show the name of the manufacturer. The company was thus able to designate the dyes which its dyers were to use solely by its own arbitrary numbers, and the men were thus unable to determine whose dyes they were using and to whom they should look for a bribe.

The Profiteering Act.

Prosecution.

At Acton Police Court, on July 14, Mr. J. E. Alcock, Ph.C., Churchfield Road, was summoned, at the instance of the Acton Profiteering Committee, in respect of a charge of 1s. 6d. made for 2½ oz. of white vaseline (*C. & D.*, June 26, p. 134). Mr. Beecroft, instructed by the Chemists' Defence Association, Ltd., appeared for Mr. Alcock. The explanation of the circumstances of the case given for the defendant was accepted by the Bench, and the summons was dismissed.

Complaint.

KENSINGTON.—At the sitting of the Profiteering Committee, on July 12, it was reported that the appeal of Mr. J. F. Harrington, chemist and druggist, High Street, had been heard before the County of London Appeal Tribunal, and that the Tribunal had varied the local Committee's order (*C. & D.*, July 3, p. 69). In view of the decision, and on the ground that the appellant was a man at the head of his profession, the Tribunal expressed the opinion that the Committee might reconsider the question as to a prosecution. A lady member urged that the local Committee ought to proceed with the prosecution, notwithstanding the decision varying the amount to be refunded. She thought the general public ought to know that, when they were paying for a prescription, they were paying for the chemist's establishment charges and not for drugs. The clerk said that if they proceeded with the prosecution they would have a very weak case. He pointed out that Mr. Harrington had been put to an immense amount of trouble and worry in connection with the proceedings. A member said that the local Committee agreed that it was a case of profiteering, and it did not matter to what extent the Appeal Tribunal varied the amount to be refunded. Another member pointed out that if the local Committee had come to the conclusion that 1s. 6d. [the refund ordered on appeal] was sufficient to be refunded, they might not have recommended a prosecution. Another lady member was of opinion that, if they did not prosecute, they would be admitting that they were in the wrong in recommending a prosecution. It was eventually decided that no further proceedings be taken.—At the same sitting a case was mentioned in which a local chemist's assistant was alleged to have offered to sell a potassium salt at 1s. 1d. per oz., the wholesale price, the complainant understood, being 8s. per lb. It was decided to summon the parties to a hearing.

Sale of Zotal in Spain.

In the King's Bench Division of the High Court, London, on July 13, the Lord Chief Justice and a special jury commenced the hearing of an action brought against Burgoyne, Burbidges & Co., Ltd., High Street South, East Ham, London, E., manufacturing chemists, by Señor José María Gutierrez Espinar, chemist, Seville, Spain. Señor Espinar claimed a large sum as damages for breach of agreement and alleged libel in connection with the sale of the disinfectant "Zotal" in Spain. From the lengthy opening speech of Mr. Schiller, K.C. (for the plaintiff), it appeared that Señor Espinar was a chemist who had invented and advertised for sale a disinfectant named "Germol," but by an agreement dated May 1, 1914, he agreed to cancel at once the sale of that product and deal exclusively for the defendants with the exploitation and sale of Zotal, a product which was the sole property of defendants. They own the trade-mark of the product. Plaintiff was to do all he could to exploit the sale of Zotal for ten years, and to avoid expense he was authorised to manufacture Zotal in his laboratory in Seville from defendants' secret formula. All packages and advertisements should bear the defendant's name, and Señor Espinar was to appear as sole concessionaire and to form a company for the exploitation of the disinfectant if necessary. He was also to pay the defendant 320*l.* per annum as a minimum for the sale of 50,000 kilos. of Zotal, and more *pro rata* if the sale went higher. Plaintiff, in accordance with that agreement, paid the first 320*l.* in advance, cancelled all work in connection with his Germol, and commenced to act in defendants' interests. Then defendants repudiated the contract, with the result that plaintiff had lost the benefit of it and the profits from his own business. In addition, they had published in two Seville newspapers a statement which plaintiff considered libellous, inasmuch as it said plaintiff had falsely announced that he had a sole right to deal with Zotal in Spain, and had obtained the contract by fraud. Counsel added that the defendants had given the contract to sell Zotal to other people in Spain. By their defence Burgoyne, Burbidges & Co. admitted the contract, but pleaded that a condition precedent had not been carried out. That condition was that the plaintiff should obtain from the heirs of a Señor Torre the transfer of the Spanish trade-mark Zotal, which they obtained in 1909, and if the transfer could not be carried out amicably he should take legal steps to enforce the transfer. As to the libel, the defendants pleaded that it had no defamatory meaning.

Señor Espinar gave evidence through an interpreter. He said the sale of his Germol had had good results, and was profitable when he cancelled it for the exploitation of defendants' Zotal. Plaintiff explained that he suffered considerable damage through having abandoned the sale of Germol. Mr. Douglas Hogg, K.C. (for defendants), said he could not agree that damage accrued under that head, for it was not the breaking of a contract that caused the damage, because plaintiff voluntarily abandoned the sale when he made the contract. Mr. Schiller said the plaintiff suffered the loss through the breach, for he had received no profit from either Zotal or Germol. Plaintiff said that by abandoning the sale of Germol he lost between 1,000*l.* and 1,500*l.* a year. Replying to Mr. Hogg, plaintiff said he first agreed to deal with Zotal for the defendants in 1909, when he registered the trade-mark in Spain as his property. He did that because he was defendants' sole concessionaire. In 1914 he gave his brother-in-law a power of attorney, but that was not that he might dispose of his trade-marks, which included Zotal, Izal, and a disinfectant called Chicago. Mr. Hogg: Do you claim that you invented Izal?—No. I registered it to avoid competition. I did not know that it was registered by a firm in England. Mr. Hogg: But to prevent the owners of Izal from selling the product in Spain, you registered the name yourself?—Yes, but without any motive of exploiting it. His Lordship: Why did you register another person's property as your own?

To prevent competition. To prevent others selling it when the owners came along?—Yes, that is quite legitimate in Spain. He added that somebody else had been selling Chicago or something under that name, so he registered the name as being his, so that he might prevent others from selling it. Mr. Hogg: So that the owner might not be able to sell his own product?—Yes; the seller was not a chemist, and only a chemist can register. By so doing you prevented the owner from selling it?—Yes; he was a competitor. (Laughter.) You authorised your brother to sell trade-marks—viz., Zotal, belonging to the defendants; Izal, belonging to Newton Chambers; and Chicago, belonging to somebody else?—I did not authorise him to sell, but he did so, and when I asked him for the money he laughed at me. He added that after having been registered for three years it was the law of Spain that the owner could not be dispossessed. Zotal was sold to a Señor Torre, and he thought if he brought that gentleman's heirs to Court they would give it up. He had thought that when Señor Torre died, the trade-mark would revert to the defendants.

Mr. Hogg, addressing the jury for the defence, explained that there was no doubt that the defendants were the possessors of the trade-mark Zotal in 1909, and there was also no doubt that in the same year they made an arrangement with Mr. Espinar under which he was to sell their disinfectant for them in Spain. There was also no doubt that Mr. Espinar registered himself in Spain as the owner of the trade-mark and the exclusive proprietor of it. For seven years he got Zotal from Messrs. Burgoynes and sold it in Spain. Mr. Espinar seemed to have a peculiar idea about commercial morality, for not only had he registered Zotal as his property, but he also registered Izal and Chicago, trade-marks belonging to other people. He did not tell these people that by so doing he could prevent them from selling their own stuff in Spain, although he could sell any sort of thing under the trade name. In 1908 Mr. Espinar found himself financially embarrassed, and he left for Mexico. Before he went he authorised his brother-in-law to hold the trade-marks, and his brother-in-law sold them. Zotal he disposed of to a Señor Tehera for 20*l.* The defendants, it need not be said, got none of that money. Consequently the only person who could sell Zotal in Spain was Tehera, and he could not sell the proper stuff because he could not get it. So he wrote to Messrs. Burgoynes, told them the circumstances, and obtained a promise from them that he should be their agent exclusively. Meanwhile Mr. Espinar was selling and advertising Germol as being better than Zotal. Then Tehera died, and his heirs carried on the sale of Zotal. In 1914 Mr. Espinar approached the defendants with somewhat a mixture of inducement and threats. He said Tehera had acted in a shady way, and if defendants did not revert to him the contract to sell Zotal he would push Germol for all he was worth. Realising that the sale of Zotal had gone down in Spain, they were impressed, and they agreed again to give Mr. Espinar the agency if he obtained back the trade-mark from Tehera's heirs. Plaintiff said he could easily get the trade-mark back by threatening Tehera's heirs, and upon that the contract that was now sued upon was signed. But it was not to become operative until Mr. Espinar got back defendant's trade-mark, and that he had failed to do. On the contrary, Tehera's heirs had made a strong legal claim to the trade-mark, and threatened Burgoynes with proceedings if they ceased to send them the disinfectant to sell under the arrangement made. So that defendants were between two stools. Tehera's heirs and Mr. Espinar, and as the latter had not carried out the condition precedent to the contract, the document was repudiated. Counsel added that Mr. Espinar was wrong when he said he entirely suspended the sale of Germol when the contract for Zotal was made as plaintiff had offered Germol to many traders during 1915. Mr. G. R. Moxon, who was a partner of the defendant firm during all material times connected with the action, said he had the interview with the plaintiff about the contract. Mr. Espinar told him that Tehera's heirs were swindling them (defendants), and he would have no difficulty in dispossessing them of the trade-mark.

The case is still proceeding.

Legal Reports.

Quinine Wine Cases.—At Merton, Newbury, on July 7 Mr. James Attewarren, chemist and druggist, was summoned, under the Sale of Food and Drugs Act, for selling quinine wine deficient in strength. The case was defended by the Chemists' Defence Association Ltd. It was stated by the prosecution that the wine, which was obtained by the defendant from Basnett & Co., Ltd., was found to contain only half the recommended amount of quinine. Mr. Pigg, solicitor, Leatherslade, who appeared for the defence, explained that the article was warranted to be in accordance with the requirements of the British Pharmacopoeia. The Bench upheld the defence of warranty, and dismissed the case.—At Ashby-de-la-Zouch, recently, Bullock & Oliver, chemists, were similarly summoned for selling quinine wine deficient in strength. The case was defended by the Chemists' Defence Association, Ltd. It was shown to the satisfaction of the Bench that the wine was of the defendant's own make, and that the deficiency was not a serious one. The summons was dismissed on payment of costs.

Disputed Claim for Bottles.—In Westminster County Court on July 12, before Judge Sir Alfred Vaughan, an action to recover £4 9s. 6d. for goods supplied was brought by Jules Lang & Son, bottle manufacturers, Charlton Works, Islington, N. against Roberts & Co., lithographic dealers, 18 Victoria Street, W.C. Sir Alfred Vaughan, who appeared for the plaintiffs, said that on January 6 a person who said he was Mr. Jeannette, of Roberts & Co., telephoned the plaintiffs as to a supply of bottles, and called later on January 12 Jeannette, who was since identified as Leopoldman, called again and ordered one case, containing five gross of 8-oz. bottles at 3d. a gross net. Two deliveries were sent. On January 16 defendants gave a further order for two cases of bottles. On January 21 an invoice was sent the defendants and was not received. On January 25 plaintiffs' carrier delivered one case which was signed for by Roberts & Co., and the summons part was left in order to pay it over the shop boys of defendants' were assisted by removing a portion of the signature. On January 29 the other two cases were delivered, but, as they could not be put inside they were left on the kerb and taken charge of by the defendants. The defence now was that the goods were really ordered for Jeannette & Co., 57 High Holborn, but on March 15 Roberts & Co. sent a money order for £5 on account. Defendants' solicitor, in reply, said the answer to the claim was that the goods were ordered by Jeannette & Co. J. Leopoldman, who said he was 18 years of age, stated in evidence that he was a salesman with the defendants for six months and then became connected with Jeannette & Co., into whose business he came in 1919. He ordered the goods for the Jeannette firm and 1919 promises to send them on account of Roberts & Co. His Honour: Who is your partner in Jeannette & Co.?—Mr. Goldmann: can he has been away and taken all the accounts and books? Where did you get the name Jeannette from?—Mr. Goldmann: His Honour: The name of a French lady sounds better than the English name of Leopoldman. Laughed. Do you now make any offer?—1919—I could pay 5s. or 6s. a month. Sir Alfred Vaughan: Who paid the £5 on account?—Mr. Goldmann: His Honour: But the report is made out to Roberts & Co., and the counterfoil of this book shows that Sir Alfred Vaughan. Who are the partners in Roberts & Co.?—Mr. Goldmann: His Honour said there would be judgment for the plaintiffs with costs. There could be no doubt that the whole circumstances showed that Roberts & Co. alone ordered and received the goods.

Nearly two tons of 17s. and 18s. d. of bread were condemned by a London magistrate on July 8. A medical officer stated that the flour smelt like treacle, and the bread like cod-liver oil. It was presumed that contamination had taken place in each case in transit.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

Cooper & Cooper Chemical Co. Ltd. (P.C.)—Capital, £3,000. Objects: To carry on the business of manufacturers, importers, and exporters of and dealers in chemical foods, druggists, drysalters, chemists, oil and colour manufacturers. Solicitor: A. O. Warren, 45 Great James Street, Bedford Row, London, W.C.

C. A. Critchley & Co. Ltd. (P.C.)—Capital, £10,000. Objects: To take over the business of a chemist and druggist, drug merchant, drysaler, oil and colour manufacturer, medicine vendor and seedsmen carried on by C. A. Critchley, of Blackburn, as "C. A. Critchley & Co." The first directors are: C. A. Critchley, 12 Adelaide Terrace, Blackburn, and J. Fairbairn, St. Leger, 2 French Road, Blackburn. R.O.: 10 King William Street, Blackburn.

Procurés Chimiques "La Société"—Capital 500,000 francs, in shares of 500 francs each. Incorporated at Martigues (Bouches du Rhône, France). Objects: 1. The treatment of known or obtain products or by-products already known or to undertake the manufacture of new preparations; 2. the manufacture of all kinds of aromatic and medicinal chemical products; 3. to exploit licences which the society will own by right of discovery, acquire, or obtain, and which will relate to or have a bearing on the business. M. Louis Bringer is President; M. Jules Lachaster, Vice-President; M. le Colonel Comandré, Administrateur-Délégué; and M. L. Depreit, manufacturer Rue de Jarcins 53, Lyons, France. Director-General. The duration of the society is fixed at thirty years.

Rowers' Dental Manufacturing Co., Ltd.—A final dividend, making 7½ per cent. for the year ended April 30, has been paid on the preference shares.

John Knight, Ltd.—An interim dividend on the 25 per cent. cumulative preferred ordinary shares has been declared at the rate of 12½ per cent. for the half-year to May 31.

Ernest Distributing Agencies, Ltd. 9 Gamage Buildings, Holborn Viaduct, London, E.C.—The creditors and shareholders of this company (in liquidation) met on July 8 at the Carey Street offices of the Board of Trade, Lincoln's Inn, W.C. Mr. E. T. A. Phillips, Official Receiver, presiding. The chairman reported that the company was formed as a private company in August 1919, with a nominal capital of £5,000, to carry on business as manufacturers of and dealers in toilet and medicinal preparations. According to Mr. de Lysle, the business was started early in 1919 by the brothers Wolf, who had in their possession certain formulas for the manufacture of toilet perfumes and other preparations, and was financed throughout by him (de Lysle). The company acquired from de Lysle the goodwill of the business, together with stock, plant, machinery, and office furniture for £3,993, which was satisfied by the allotment of 2,000 shares to de Lysle, £49 to Joseph Wolf, £50 to Sidney Wolf, £49 to Henry Wolf, and £50 to Ephraim Wolf. The remaining 1,002 shares were issued for cash. The principal business was the manufacture of preparations known as "Nitrodine," "Pyro Dandruff Destroyer," and "Pyrotone Tooth Paste." These formulas were in writing: they had not yet been traced, but it was hoped to trace them definitely. They were not included in the statement of affairs as assets, but there is some reason for thinking they belong to the company. The statement of affairs showed total liabilities £5,511. 17s. 3d., of which £3,327. 17s. 6d. is expected to rank against assets valued at £657. 1s. 9d., and a total deficiency of £1,141. 15s. 2d. with regard to contributions. Agencies were established at Croydon, Glasgow, and Sheffield. On October 1, 1919, the company obtained a loan of £500 from Horne & Co., St. Michael's Alley,

Cornhill, and the loan not being repaid at due date, Messrs. König obtained judgment, levied execution, and the assets of the company were sold for 207L. It was in respect of the balance of that debt that the winding-up order was made. The failure of the company was attributed by Mr. de Lysle to incompetence and mismanagement on the part of those responsible for running the factory. In the absence of any resolution, the liquidation was left in the hands of the Official Receiver. Among the creditors are: Anglo-French Perfumery Co., 123L.; Anglo-French Manufacturing Co., 52L.; Brookes, Peel & Co., Ltd., 90L.; Burgoyne, Burbidges & Co., Ltd., 35L.; British and Foreign Bottle Co., Ltd., 35L.; Duncan, Flockhart & Co., 165L.

Wages Standard for Pharmacy.

WE reported recently (*C. & D.*, June 5, p. 73) that the Amalgamated Society of Pharmacists, Drug and Chemical Workers had submitted a proposal to meet a Sub-Committee of the Local Associations Executive to discuss the question of a wages basis for assistants in England and Wales. The meeting took place, and a schedule of wages suggested has since been submitted by the Amalgamated Society which is now to be sent for discussion before local associations. We have been favoured with a copy of the schedule referred to, from which we take the subjoined particulars: The following rates are suggested for London and other places (Group 1) where the cost of living is highest, employés in other groups of towns to have the scale of wages reduced from 2s. 6d. to 6s. 6d. per week according to the classification of the towns in the Ministry of Labour returns as to the cost of living. There are deductions of 20s. per week where the assistant lives in, 12s. 6d. per week where dinner and tea are provided, and 2s. 6d. per week where tea is provided.

BASIC RATE FOR GROUP 1 (LONDON, ETC.).

Exclusive of all bonuses and commissions, excepting where stated otherwise.

Pharmacists (Managing).

Weekly Turnover of Pharmacy.	Salary per Week.
£ 150	10 10
120	10 0
100	9 10
90	9 0
80	8 10
70	8 0
60	7 10
55	7 0
50	6 10
45	6 0
40	5 10
35	5 0

Commissions, calculated monthly or weekly only, may form not more than 10 per cent. of above minima. Women to receive same rates as men.

Pharmacists.

Age 28 years and over, per week	£ s. d.
27	8 5 0
26	7 15 0
25	7 10 0
24	7 0 0
23	6 10 0
22	6 0 0
21	5 10 0
	5 0 0

Commission, etc., as pharmacists (managing).

Chemists' Assistants (Registered).

Those whose names appear in the current register as Student Associates of the Pharmaceutical Society.

Age 28 years and over, per week	£ s. d.
27	6 0 0
26	5 15 0
25	5 10 0
24	5 5 0
23	5 0 0
22	4 12 0
21	4 6 6
	4 0 0

Women to receive not less than 15 per cent. off the basic rates in this table. Commissions, calculated monthly or weekly only, may form not more than 10 per cent. of above minima.

Chemists' Assistants (Unregistered).

Those who have served ten years in the trade, including laboratory assistants engaged in compounding "B.P." and "stock" formulas or supervising packers, etc.

Age 28 years and over, per week	£ s. d.
27	5 10 0
26	5 0 0
25	4 15 0
24	4 10 0
23	4 5 0
22	4 0 0
21	3 15 0
	3 10 0

Commissions, calculated monthly or weekly only, may form not more than 10 per cent. of above minima. Women to receive not less than 15 per cent. off the basic rates in this table.

(1) Where an assistant and apprentice, assistant and junior, or two assistants are employed, first assistant to receive not less than 5s. additional to salary as computated upon above tables.

(2) Similarly, where three are employed, first assistant to receive not less than 7s. 6d. additional to salary as computated upon above tables.

(3) Similarly, where four are employed, first assistant to receive not less than 10s. per week extra, and second assistant 5s. per week extra, additional to salary as computated upon above tables.

(4) Head assistant—i.e., where directing two or more first or second assistants—to receive not less than 20s. additional to wages computated upon above tables.

(5) Terms for first assistant, second assistant, or head assistant positions to be applicable to pharmacists, registered or unregistered assistants under their respective tables.

Juniors.

(After three years' apprenticeship and under twenty-one years of age.)

Age 20 years	70s. per week.
19	60s. "

Women to receive not less than 15 per cent. off above rates. Commissions, calculated monthly or weekly only, may form not more than 10 per cent. of above minima.

Apprentices.

Age 16 years, 1st six months	15s. per week.
2nd	20s. "
3rd	25s. "
4th	30s. "
5th	35s. "
6th	40s. "

The sum of 2s. 6d. per week may be added to pay for travelling where distance justifies it. Apprentices not to be under the age of sixteen years; not more than one apprentice to three assistants. Indentures at present in existence not to be interfered with.

Counter Assistants.

Those not possessing the qualification to enable them to register as Student Associates of the Pharmaceutical Society, including packers—i.e., those filling, finishing, etc.

Age 27 and over, per week	£ s. d.
26	80 0
25	77 6
24	75 0
23	72 6
22	70 0
21	67 6
20	65 0
19	57 6
18	50 0
17	42 6
16	35 0
	27 0

Women to receive not less than 15 per cent. off above rates. Counter hands not to take first or second assistants' positions until after ten years in the trade and in receipt of rates under "Unregistered Table." Commissions, calculated monthly or weekly only, may form not more than 10 per cent. of above minima. After ten years in the trade, or upon reaching the age of twenty-eight, the counter hands to be transferred to the "Chemists Assistants" Unregistered Table, as laid down in Apprenticeship (Late Entrants) Clause.

Society of Chemical Industry.

THE annual meeting of the Society of Chemical Industry is being held this week at Newcastle-upon-Tyne. The President, Mr. John Gray, was unfortunately unable to be present owing to illness, and his place was taken by Professor Henry Louis, past-President. The meeting opened at the Armstrong College on July 15, when the Lord Mayor (Mr. Walter Lee) and Sir Theodore Morison (Principal of the College) welcomed the Society. The Lord Mayor, in the course of his speech, remarked that the chief question of the day was reconstruction, and that the Society could do a great deal for industry in the future. Sir Theodore Morison emphasised the importance of the association of the Universities with industry.

Professor Louis, in reply, said that the Society had always sought to apply science to industry. The great excellence of the average North-Country workman had probably tended to prolong the life of rule-of-thumb methods. It was only under the stress of war conditions, when intensified production was required and new conditions had to be faced and work turned out rapidly, that the essential need for scientific men and scientific control became felt. They must all realise, however, that the stress of after-war competition would be, in its way, quite as great as that of the war period; and manufacturers were, he hoped, beginning to see that they could only meet that after-war competition in the way in which they succeeded in meeting the struggles in the war days—by calling in the aid of the scientist to help them to control their technical operations. He called upon the secretary (Dr. J. P. Longstaff) to read the minutes of the last annual meeting, which was held in London.

The meeting decided to send a telegram to the President of the Society, expressing regret at his illness and hopes of a speedy recovery.

ANNUAL REPORT.

Then followed the reading of the annual report of the council. This stated that the membership is now 5,571, as compared with 5,256 last year. Mention was made of the loss of members by death during the past year, these including Mr. W. B. Cowie, Dr. Messel, Mr. Watson Smith, and Mr. John C. Umney. The council nominated Sir William Pope, F.R.S., to the presidency, and Mr. E. V. Evans was appointed treasurer in place of Mr. D. Lloyd Howard, who resigned owing to business engagements. An invitation to hold the next annual meeting in Montreal was recommended for acceptance. It was decided in November that for a further period of twelve months no enemy aliens should be admitted to membership of the Society. The London section gave 200/- to the Society from the funds of the section. Mr. G. H. Ford, M.Sc., has been appointed assistant editor of the Review Section of the Journal. Prolonged and serious consideration has been given to the financial position of the Society. The income and expenditure accounts for the years 1918 and 1919 show deficiencies of 3,145/- and 2,353/- respectively. In order to wipe off the former, several of the Society's investments had to be realised, and a similar course will have to be adopted for the purpose of clearing off the latter. The deficiencies have been due to the enormous increase in the cost of printing and paper, and the council, realising the seriousness of encroaching further on the Society's reserve funds, has, after much deliberation, decided that the annual subscription must be increased from January 1 next. A communication was received from the University of London requesting the council to suggest names of members to form a committee representative of the chemical trades to examine its scheme for degrees in commerce. It was considered desirable that such a committee should comprise representatives both of the Society and of the Association of British Chemical Manufacturers, and this suggestion was approved by the University authorities. A communication was received from the President of the American Chemical Society inviting the council to appoint a committee on nomenclature, spelling, and pronunciation to

co-operate with the corresponding committee of the American Society. Professor G. T. Morgan, Mr. T. F. Burton, and Dr. E. H. Tripp were appointed such a committee, to co-operate with the similar committee of the Chemical Society of London. Consideration has been given to a communication from the Conjoint Board of Scientific Societies pointing out the serious handicap from which the nation suffered in the early years of the war in respect to the application of science to war problems, and the desirability of approaching the Admiralty and War Office with the object of establishing a more satisfactory and permanent basis for the application of science to the problems concerned in view of future wars. The Board regards it as essential that continuous research by co-operation between the Services and individuals engaged in scientific research should be established with a view to the application as soon as possible of new discoveries and principles to war problems, and that facilities for the mobilisation of a scientific staff without delay and in the most efficient manner should be provided. The council is fully in accord with the views and proposals of the Board, and has submitted certain suggestions bearing on the scheme. The motion proposed by the chairman adopting the report was carried unanimously.

THE FINANCIAL REPORT.

was next considered. The income during 1919 from fees and subscriptions was 8,202/- 12s. 9d.; from sales and advertisements in the "Journal," 13,381/- 2s.; interest, 579/- 19s. 3d. The expenditure on the "Journal" was 19,273/- 12s. 4d.; on the "Annual Reports on Applied Chemistry," 445/- 1s. 4d.; sectional expenses, 1,256/- 11s. 5d.; annual meeting expenses, 200/-; superannuation, 515/-; working expenses, 3,048/- 15s. 3d. The excess of expenditure over income was 2,553/- 4s. 2d.

Mr. D. Lloyd Howard moved the adoption of the report, which was carried unanimously.

An interesting ceremony took place in the presentation of the Society's medal to M. Paul Kestner, the distinguished French chemical engineer. M. Kestner, in returning thanks, expressed his pleasure at being the first foreigner to receive this distinction.

The chairman then read the President's address, which dealt largely with industrial organisation, and with the factors of maximum efficiency.

The officers for the ensuing year were elected, Sir William Pope being the new President.

The Newcastle Section entertained the members to lunch in the King's Hall of the Armstrong College, and in the evening the Lord Mayor received the members at the Laing Art Gallery, over 200 guests being present.

The papers on Wednesday were on metallurgical subjects. In the evening the annual dinner was held. Thursday was devoted to visits to local works.

CURING THE ALIEN.—It has been decided that no foreigners, excepting those who have served in the Forces during the war, are to be taken into the employ of the London County Council, either in a permanent or temporary capacity, without the passing of a special resolution by the general purposes committee of the Council.

CZECH PHARMACISTS CHECKMATED.—As a result of the ever-soaring prices for drugs, the "Svazeské lékárnictví" recently decided to elaborate a dispensing tariff which takes into consideration the actual conditions at present ruling on the drug market in the new Republic. This tariff was submitted to the Ministry of Health, with a request to ensure its legal adoption. The Government has now refused to take cognisance of this tariff, and has further instructed the Government officials throughout the country to warn pharmacists that anyone found selling medicaments not in accordance with the rates fixed in the official tariff will be severely punished. The Czech sick clubs have also refused to recognise the Pharmaceutical Society's draft tariff, and insist upon their rights. Now the Society has appealed to the Chamber of Commerce in Prague to undertake the protection of the pharmacists, and to terminate an impossible state of affairs.

Pharmaceutical Society of Ireland.

Council-meeting.

THE monthly meeting of the Council was held at 67 Lower Mount Street, Dublin, on July 13, Mr. J. E. Connor, J.P. (President), in the chair. The following members of the Council were also present: Dr. A. J. Barnes (Vice-President), Mr. G. D. Beggs, J.P. (treasurer), Dr. J. A. Walsh, Messrs. W. F. Wells, James Michie, John Smith, A. Owen Wells, Charles E. Digges, G. A. McLean Lee, and Victor E. Hanna.

Mr. Richard Blair (Cork) wrote apologising for absence.

BRITISH PHARMACEUTICAL CONFERENCE.

The following were appointed delegates: The President, the High Sheriff of Dublin (Dr. McWalter), Messrs. W. F. Wells, C. E. Digges, A. Owen Wells, John Smith, and Victor E. Hanna.

INCREASE OF SUBSCRIPTIONS.

The Registrar submitted a communication from Dublin Castle, enclosing copies of an Order in Council made on July 1, amending the Regulations made under the Pharmacy Act (Ireland), 1875, and increasing the annual subscriptions of members and associate druggists from 1*l.* 1*s.* to 1*l.* 1*s.* 6*d.*; and also enclosing a copy of the "Dublin Gazette" in which the Order was published.

PRELIMINARY REGISTRATION.

The following, who submitted Intermediate Board certificates, were admitted to Preliminary registration:

Mr. C. Dillane, The Medical Hall, Bridge Street, Newcastle West; Mr. Eugene J. Sullivan, Ballykearney, Mitchelstown, co. Cork; Mr. Bertie B. Morrison, 2 Union Street, Coleraine, co. Derry; and Mr. Leo MacCourtney, 23 Bridge Street, Lisburn.

CHANGES OF ADDRESS.

Communications were received from the following notifying changes of address:

Mr. John Corcoran, Ph.C., to Wilson's Medical Hall, Main Street, Longford; Mr. Denis Corcoran, Ph.C., to same address; Mr. G. Thompson Wilson, Ph.C., to c/o Kay Brothers, Ltd., St. Petersgate Mills, Stockport; Mr. M. Greenbat, Ph.C., c/o Morton's, Cash Chemists, Ltd., 295 High Road, Chiswick, London, S.W.; and Mr. W. M. Birmingham, Ph.C., to 56 South Parade, Waterford.

The PRESIDENT said there was expense, and also a lot of trouble, associated with these changes of address, and he suggested that a charge should in future be made for them.

Mr. W. F. WELLS said if those who changed their addresses did not notify the Registrar, and if letters sent to their former addresses were returned their names would not be kept on the register; and they would have to pay a guinea to get them put on again. It would be necessary to give notice of motion to have a charge made.

The VICE-PRESIDENT gave notice of motion for the next meeting that a charge of 2*s.* 6*d.* be made in future for each change of address on any of the Society's registers.

REPORTS FROM COMMITTEES.

Reports from the following Committees were received and adopted: The Law Committee, the Certificates Committee, the Declarations Committee, the House Committee, and the School Committee.

The Registrar submitted a report of the death of Mr. James A. Hanna, associate druggist, Castle Buildings, Lisburn.

INCREASE OF EXAMINATION FEES.

Mr. MICHIE proposed, in accordance with notice of motion:

That the fee for Preliminary examination be increased to 3*l.* 5*s.*, and that the re-examination fee be increased to 2*l.* 2*s.*; that the Pharmaceutical Licence examination fee be increased to 10*l.* 10*s.*, and that the re-examination fee be increased to 4*l.* 4*s.*; and that the Registered Druggist re-examination fee be increased to 2*l.* 2*s.*

He said that the matter had been brought up at the last meeting of the Council from the House Committee, who recommended the increases, but to put the matter in order notice of motion was given for that meeting. They all knew why it was necessary to increase the fees. The expenses of the Society had increased so much that it was impossible to continue on the old lines. He presumed that the increases would take effect from the commencement of the next financial year.

The VICE-PRESIDENT seconded the motion, and said the Society certainly could not go on examining at the present figures, having regard to the present expenses.

The resolution was passed unanimously.

ELECTION OF MEMBERS.

The following were elected as members:

Mr. W. H. Harman, Ph.C., The Medical Hall, Carrick-on-Shannon; Mr. J. A. Potter, Ph.C., 4 Eden Park, Kings-town; and Mr. C. L. Reilly, Ph.C., 10 Booterstown Avenue, co. Dublin.

Examination Results.

Preliminary Examination.—The following are results of the recent examination: Thomas Dunne, Maryborough, passed with Honours. The following also passed (arranged in order of merit): Thomas H. M. Watson, Belfast; Mary J. O'Regan, Foxrock, co. Dublin; (Eliza McEnery, Dublin=Michael Costelloe, Tralee); John J. McVeigh, Banor, co. Down; Cornelius Crowley, Tralee; Norah K. Moffit, Belfast; Hosea Isaacson, Dublin; (Isabel McNeill, Castlecaulfield=James Gracey, Waterford=Jeremiah J. Ryan, Pallas Green); Mary Britton, Mulinahone; (Margaret F. E. Johnston, Lurgan=Annie R. Maguire, Donamou, co. Roscommon); (Johanna Corcoran, Longford=Bernard Murphy, Portadown); Patrick J. Farrell, Dublin; (Robert B. Abernethy, Belfast=Robert A. McEweu, Lisburn); Patrick C. Cahill, Dublin; James Kerr, Lurgan; John McIlroy, Cully Backey; Mary Ward, Carrickmacross; Wm. McC. Rutherford, Lurgan. Twenty-seven candidates were rejected.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Vanillin from Potato Plant.—Lippmann (Deut. chem. Ges., 52, 1919) has succeeded in isolating vanillin from the flowers of the potato plant. He noticed that the odour of vanillin was particularly strong in the morning.

Zinc in Foodstuffs.—Birkner ("Jour. Biol. Chem.", p. 191, 1919) discovered that hens' eggs contain on an average one mgm. of zinc, which is mostly present in the yolk. Milk was found to have an average content of 4.2 mgm. of zinc in 1,000 gm., while human milk exhibits an even higher content of zinc. The author believes that the presence of zinc in the yolk has an important bearing on nutrition.

Composition of Starch.—Mellanby ("Biochem. Jour.", XIII., 1919) found that on adding colloidal iron to a solution of starch the latter separates into three distinct portions: one part is precipitated; a second portion is precipitated on the addition of an electrolyte with the iron; a third portion remains in solution on filtration. Whatever amount of colloidal iron may be added, the first portion always represents 80 per cent. of the starch.

Constitution of Capsaicin.—The amount of capsaicin present in Cayenne pepper varies considerably; a good drug should yield about 60 gm. from 50 kilo. of Cayenne pepper. Nelson (Journ. Amer. Chem. Soc., 1919, p. 1115), found that on oxidation capsaicin yields veratric acid, and on hydrolysis, by means of hydrochloric acid in methyl alcohol, 4-oxy-5-methoxybenzylamine hydrochloride, or vanillylamine, is obtained. Hydrolysis by means of a 25-per-cent. solution of sodium carbonate at 180° C. permits the isolation of the acid radicle of the molecule, which is apparently a new acid, decenoic acid, having the formula $C_{10}H_{18}O_2$. The author is of opinion that capsaicin is a condensation product of vanillylamine and this acid.

British Pharmaceutical Conference.

LOCAL COMMITTEE'S BADGE.



Miss DOROTHY SYMES, daughter of Dr. Charles Symes, vice-chairman of the Local Committee, has designed and carried out the badges which will be worn by the members of that Committee. The design shown here is hand-painted on the badges, which are of white silk. The work has been daintily carried out by Miss Symes.

PERSONALITIES.

Mr. Henry Peet, M.A., J.P., F.S.A., a distinguished local member of the Conference, who is a licensed lay reader, will read the Lesson at the Cathedral Service.

At a meeting of the Local Committee held on July 9, Mr. E. T. Pearson, of the "Liverpool Daily Post and Mercury," was appointed official Press and Publicity Agent for the Conference.

ADDITIONAL PAPERS.

The following additional papers have been presented in the Science Section (see *C. & D.*, July 10, p. 52) :

"A Note on the Preservation of Hydrogen Peroxide," by H. R. Jensen, M.Sc., F.I.C.

"Absorption Medicines and Similar Remedies with Local Action," by H. R. Jensen, M.Sc., A.I.C.

"Plaster Mulls," by A. W. Gerrard.

PORT SUNLIGHT.

An invitation to visit Port Sunlight has been extended to members of the Conference by Lever Bros., Ltd. As some of the visitors may wish to avail themselves of this opportunity, arrangements can be made for a visit to take place on Friday morning, July 23. Will those desiring to participate kindly communicate with the hon. local secretaries not later than Tuesday, July 20?

THE SOUTHPORT VISIT.

The visit to Southport is proving to be a great attraction, thanks to the efforts of the Southport Committee, comprising Mrs. Charles Hare, Mrs. Frank Naylor, Mrs. Rawsthorne, and Mrs. W. H. Smith, supported by Mr. Harold Barton (President) and Mr. R. H. West (hon. secretary), and the members of the local Association. Those who have tickets for this excursion will have received an interesting booklet dealing with Southport and its attractions.

OFFICIAL PROGRAMME AND GUIDE.

Copies of the Programme, Time-table, Guide to Liverpool, and Description of Drive to Bettws-y-Coed, with Maps, have been posted to members of the Conference during the past few days. Strongly bound in dark-blue cloth, and stamped on the cover with the arms of the city of Liverpool, the book makes a handsome volume. Its contents include the names of officers and members of the various committees of the Conference, Philip's "Guide to Liverpool" (fifty pages), the *C. & D.* article, "Through the Heart of Wales," and special map of the motor route, tickets for the various functions, and several other maps and plans.

MEETING VISITORS ON ARRIVAL.

As doubtless a large number of those attending the Conference will be strangers to Liverpool, the following members of the Local Committee have volunteered to be at the stations named to meet the trains on Monday, July 19, and to direct visitors to their respective hotels.

These members will easily be recognisable by the Conference badge which they will wear..

Lime Street Station (L. and N. W. Railway).—Messrs. D. H. Evans, J. McInroy, and Harold Wyatt.

Exchange Station (L. and Y. Railway).—Messrs. F. C. Cooling and J. H. Robinson.

Central (Cheshire Lines) Station (Midland Railway, Great Central Railway, Great Northern Railway).—Messrs. A. W. Ashcroft and A. J. Ferriday.

Association of British Chemical Manufacturers.

THE fourth annual general meeting of the Association of British Chemical Manufacturers was held on July 8 in the rooms of the Chemical Society at Burlington House, Piccadilly, London, W., Mr. Robert Grosvenor Perry, C.B.E. (Chairman), presiding. The General Manager (Mr. W. J. U. Woolcock, M.P.) having read the notice convening the meeting, the Chairman moved the adoption of the annual report, and said that one of the difficult problems of the last year or two has been that of the chemical-plant manufacturers. They have had many applications for membership from firms, and in some cases those firms could be described as being actually chemical manufacturers. The election of a chemical-plant manufacturer was not, however, intended by the spirit of their articles of association, which limits membership to British chemical manufacturers. The difficulty has been solved by organising a small Association of Chemical Plant Manufacturers, which it is hoped may affiliate with their own Association. The Chairman then referred to the work of the Dye Committee set up by the Government upon which the Association is represented. The adoption of the report was seconded by Dr. E. F. Armstrong, F.R.S. Mr. E. V. Evans, who spoke subsequently, was insistent upon the encouragement of chemical engineering, and Mr. E. Bernard Cook referred to the serious conditions which are caused by the low rate of exchange in Germany and France. Mr. F. H. Carr referred to the fact that the Government were checkmated by the Sankey judgment, and left in the position of having promised that the fine-chemical industry would be protected without having carried that out. The situation has become acute. Referring to the new Salicylic Acid Association, a combination which is beginning on right lines, Mr. Carr said it was not to be an association to keep prices up so much as to bring prices down. That is to say, their main object must be essentially to make salicylic acid with such efficiency that they could with certainty place their goods in other countries in which the German can place his goods at a price equal to, or lower than, that of the Germans. Fine-chemical products, more than any other, must be sold in a bigger market than England held if they are going to be manufactured at all. He also spoke on the question of research.

Mr. Kenneth Chance, M.A., said the progress that the Association had made during the last three or four years was nothing short of amazing. One looked at the papers in the morning and saw that some new union or federation of one sort or another had been formed. That seemed to be quite impossible in the chemical trade, because the Association does its work so extremely thoroughly. He also referred to the question of transport.

The chairman briefly replied, and the resolution was carried unanimously.

Sir William Pearce, M.P., moved that the present auditors be reappointed. This was seconded by Mr. Max Muspratt and carried unanimously.

Votes of thanks to the chairman ended the meeting.

FIND OF TIN.—It was stated during the hearing of a Chancery action on July 8, that a company which had been prospecting among some ancient mine workings at Gwinear, abandoned more than fifty years ago, had located a rich lode of tin 60 ft. wide. This is by far the largest in Cornwall.

Births.

RENNIE.—At Tarn Grange, Rawdon, on July 13, the wife of John Rennie, chemist and druggist (W. B. Cartwright, Ltd., Rawdon), of a daughter.

SCOTT.—At 46 Stonelaw Road, Rutherglen, Glasgow, on July 12, the wife of Alexander Scott, M.P.S., of a son.

SCURR.—At 40 Courthope Road, Hampstead, London, N.W. 3, on July 14, the wife of Cyril A. Scurr, M.P.S., F.S.M.C., F.I.O., of a son.

SMITH.—At Bath Parade, Cheltenham, on July 11, the wife of T. Norman Smith, M.P.S., of a daughter.

TAIT.—At 15 Seymour Street, Dundee, on July 12, the wife of J. Nicol Tait, chemist and druggist, 4 Polepark Road, of twin daughters.

Marriages.

EVANS—SEARLE.—At the Wesleyan Church, Harrow, recently, Richard Howell Evans, chemist and druggist, Cresswell, Laugharne, to Gertie May, daughter of the Rev. J. Searle, Buller Road, Harrow.

IRVINE—FERGUSON.—At Glasgow, before the Sheriff, on July 6, Malcolm M. Irvine, Ph.C., principal of the Glasgow School of Pharmacy, to Mary A. Ferguson, pharmacist, daughter of the late Mr. Walter Ferguson, Cumnock.

OWEN—JONES.—At Libanus Church, Brynmawr, on July 7, by the pastor, the Rev. D. J. Jones, M.A., assisted by the Rev. T. H. Williams, cousin of the bridegroom, W. J. Owen, M.P.S., manager to Mr. T. H. Prichard, chemist and druggist, Abertillery, to Jennie Jones, L.R.A.M., fourth daughter of the late Mr. W. Jones, "Ty-Llwyd," Brynmawr.

PRINGLE—IRELAND.—At Station Hotel, Kirkcaldy, on July 6, by the Rev. A. W. McClymont, M.A., and the Rev. W. M. Milne, M.A., John Millie Pringle, M.C., M.B., F.R.C.S.E., son of the late Mr. George Pringle, chemist, Kirkcaldy, to Isabella McGregor Low, daughter of Mr. Matthew Ireland, Crail.

Deaths.

BRENTON.—At Perranporth, Cornwall, on July 13, after a short illness, Mr. Thomas Brenton, of 1 Pagoda Avenue, Richmond, late secretary of Johnson, Matthey & Co., Ltd., Hatton Garden, London, E.C.

CARGILL.—At 68 Lower Broughton Road, Manchester, on July 9, Mr. David Allan Cargill, Ph.C., eldest surviving son of the late Captain William Cargill, Arbroath, aged fifty-four. Mr. Cargill served his apprenticeship to Mr. John Robertson, chemist and druggist, West Port, Arbroath. After experience as assistant at Newport, Shropshire, and in Edinburgh, he passed the Minor and the Major examinations in 1889. Two years later he purchased the Manchester business, having meanwhile filled the post of senior assistant with Mr. Eardley, Glossop Road, Sheffield. The business developed successfully, and eventually Mr. Cargill opened a branch in the same road. He was elected President of the Salford and District Pharmacists' Association in 1911.

COLLEY.—On July 2, Mr. John Hood Ryle Colley, chemist and druggist, Swalwell, aged thirty-two. Interred at Oakham Cemetery, with military honours, on July 5.

HOFFMAN.—At Tweedbrae House, Peebles, on July 5, Mr. G. Hoffman, for many years with T. & H. Smith, Ltd., manufacturing chemists, Edinburgh, aged eighty.

NICHOLLS.—At 351 Fulham Palace Road, London, S.W. 6, on July 6, Mr. Ralph Nicholls, chemist and druggist, aged fifty. (See p. 42.)

ORANGE.—Near Guildford, recently, Mr. Edward Henry George James Orange, chemist and druggist, 25 High Street, Aldershot, aged sixty. (See p. 42.) Mr. Orange had been in business in Aldershot for upwards of thirty-two years, and was well known in local musical and Masonic circles. He is survived by a widow, two sons, and a daughter. The funeral took place at the Aldershot Town Cemetery on June 13, all the pharmacies in the town being closed during the ceremony as a token of respect. In addition to the relatives present, the following houses in the town were represented: Allen & Lloyd, Ltd.; Timothy White Co., Ltd.; Williams & Litchfield.

REES.—At his residence in Dowlais, on July 10, after a brief illness, Alderman Richard Posthumous Rees, J.P., chemist and druggist, 177 High Street, aged seventy-one. Alderman Rees, who was born and educated at Carmarthen, passed the Modified examination in 1869. Shortly afterwards he purchased the business of the late Mr. David Lewis in Dowlais, which he carried on (latterly with the assistance of his eldest son, Mr. W. E. J. Rees, chemist and druggist) till his last illness.

Throughout his business career, Alderman Rees was actively associated with the public life of his town. In 1879 he convened the meeting at which the Dowlais chamber of trade was founded, and became its first President. In 1905 he was returned as a borough councillor, and in 1912 he was made an alderman. Election to the mayoralty of Merthyr Tidfil followed in 1918, and during his year of office Alderman Rees was chosen President of the Merthyr Tidfil County Borough Chemists' Association. As Mayor of the borough, he held a reception when the South Wales and Monmouthshire Federation of Pharmaceutical Associations met at Merthyr last year, and opened the proceedings of the Federation. He was a Churchman, a Conservative, and a prominent member of the Manchester Unity of Oddfellows. For many years he took a keen interest in the Volunteers, in housing schemes, and in many other projects of local or national importance. He is survived by two sons and a daughter. The funeral took place on July 13 at Pant Cemetery, after an impressive service at Pant Church. The attendance was of a representative character, among those present being the Mayor, the town clerk, and the chief constable of Merthyr Tidfil, officials of the Merthyr and Dowlais Chambers of Trade, and the following members of the Merthyr Chemists' Association: Mr. J. Francis (President), Mr. Roberts (Vice-President), Mr. D. W. Evans (treasurer), Mr. I. Owen (secretary). All the shops in Dowlais were closed during the ceremony as a mark of respect.

WILKINSON.—On July 3, Mr. J. Benjamin Wilkinson, manufacturing chemist, 140 Holme Lane, Dudley Hill, Bradford, aged seventy-five. Mr. Wilkinson commenced business as a manufacturing chemist forty-three years ago. He was a member of the Bradford Town Council from 1910 to 1912.

THE BRADFORD TECHNICAL EDUCATION COMMITTEE has approved of the expenditure of between 2,800*l.* and 3,000*l.* in equipment for laboratories.



ALDERMAN R. P. REES, J.P.



MR. D. A. CARGILL, PH.C.

Dangerous Drugs Bill.

THE Dangerous Drugs Bill has suffered the same fate as the Plumage Bill did a week ago by being relegated to the bottom of the list on the grounds that the Committee (Standing Committee C.) to which the Bill had been allocated for amendment failed to obtain a quorum. The first sitting of the Committee was fixed for Tuesday, July 15, at eleven, but after waiting half an hour the members adjourned till Wednesday, July 14, at 11.30 A.M. The same thing happened again—the requisite number of members (twenty) not being forthcoming. Mr. W. Nicholson decided to have a third trial, and fixed another meeting for four in the afternoon. Half an hour was patiently passed, and still no quorum. Mr. Nicholson then announced that the Bill would be placed at the bottom of the list, which means that the Bill has no prospect of being considered till the autumn session. Sir B. Chadwick, however, did not let the opportunity pass without registering his protest against this waste of time. The chairman suggested that the protest should take the form of questioning the Leader of the House on the working of Standing Committees, and it is expected that at an early date a question will be put down in the paper to this effect.

There are only two pages of amendments to the Bill, and, with the exception of one, they all stand in the name of Sir John Baird (Under-Secretary of the Home Office). On clause seven, which deals with the control of manufacture and sale of cocaine, etc., he proposes to add the following:

(2) The regulations under this section shall provide for authorising any person who lawfully keeps open shop for the retailing of poisons in accordance with the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908—

(a) to manufacture at the shop in the ordinary course of his retail business any preparation, admixture, or extract of any drug to which this Part of this Act applies; or

(b) to carry on at the shop the business of selling or distributing any such drug; subject to the power of the Secretary of State to withdraw the authorisation in the case of a person who has been convicted of an offence against this Act or of an offence under the enactments relating to the customs as applied by this Act, and who cannot, in the opinion of the Secretary of State, properly be allowed to carry on the business of manufacturing or selling or distributing, as the case may be, any such drug;

Provided that the Secretary of State shall, before withdrawing the authorisation in the case of any such person, consult the Council of the Pharmaceutical Society of Great Britain.

(3) Nothing in any regulations made under this section shall be taken to authorise the sale, or the keeping of an open shop for the retailing, dispensing, or compounding of poisons by any person who is not qualified in that behalf under, or otherwise than in accordance with, the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908, or to be in derogation of the provisions of the Pharmacy Act, 1868, as so amended, for prohibiting, restricting, or regulating the sale of poisons.

As a new clause Sir John Baird proposes to move:

Power of Arrest.—Any constable may arrest without warrant any person who has committed or attempted to commit, or is reasonably suspected by the constable of having committed or attempted to commit, an offence against this Act, if he has reasonable ground for believing that that person will abscond unless arrested; or if the name and address of that person are unknown to and cannot be ascertained by him.

The Attorney-General for Ireland has given notice to move the following new clause:

Application to Ireland.—This Act in its application to Ireland shall have effect subject to the following modifications—namely:

(a) a reference to the Poisons (Ireland) Act, 1870, the Pharmacy (Ireland) Act, 1875, and the Pharmacy (Ireland) Act, 1875 (Amendment Act, 1890), shall be substituted for any reference to the Pharmacy Act, 1868; and

(b) a reference to the Pharmaceutical Society of Ireland shall be substituted for the reference to the Pharmaceutical Society of Great Britain.

Trade Notes.

LA REINE DES CRÈMES.—Showcards for this French cream are offered by Calmon & Neate, 8 Gerrard Street, London, W. 1.

SPRINKO.—The Vinolia Co., Ltd., advertise in this issue Sprinko, a non-abrasive hand-cleaner, which sells retail in sprinkler-top boxes at 1s.

SPRAYS.—George Holliday & Co., Ltd., 289-325 City Road, Manchester, offer a variety of sprays and atomisers, of which illustrations and prices are given.

KONAPRO BISCUITS.—Menley & James, Ltd., Menley House, 64 Hatton Garden, London, E.C., have placed on the market a new kind of biscuit for use in the treatment of constipation. The special feature of the Konapro biscuits, as they are called, is that they contain cellulose and organic salts, the former being a stimulant to peristaltic action. The biscuits retail at 3s. 6d. per box, and the retail price is protected under the scheme of the Proprietary Articles Trade Association.

REGINA TOILET PREPARATIONS.—Price's Patent Candle Co., Ltd., Battersea, London, S.W., put up a series of toilet preparations under the brand name "Regina." The distinguishing feature of each package is the crimson morocco-leather effect of the ornamentation of the tin containers. The two preparations before us are shaving-powder and solidified brilliantine. The former is packed in an upright container, with special valve arrangement for letting out the soap-powder on to the shaving-brush. The solidified brilliantine is a pale-green jelly. Both are nicely perfumed.

QUINPHOS.

Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool, send us one of the new Quinphos "cut-out" showcards which are being supplied to chemists. The illustration given here shows the appearance of the cut-out, but the original is in colours and measures 10½ in. high. The idea has been to provide a striking showcard that will not take up too much room in the chemist's shop, but keep before the public the appearance of the Quinphos package. Messrs. Thompson & Capper inform us that they will gladly send the showcards to chemists who apply.



QUINPHOS

Information Department.

INFORMATION WANTED.

B 87. Union Jack corn paste.	B 147. Reynolds' gout specific
B 87. Smith's special foot formula.	(late of 92 New Bond Street, W.).
L 107. Cooper's ophthalmic cure.	D 146. Odile carbolic tooth powder.
M 127. Lawrence's bottle caps.	D 147. Eclat perfume.
BB 137. Neophylose.	D 147. Maiquado perfume.
A 137. Nawrus.	D 147. Hamalya perfume.
B 147. Enutrgol.	D 147. Electro tonic pills.
M 147. Machines for making sprinkler tops.	B 157. Bishop brand Eau de Cologne.
D 147. Vibutero.	

Observations and Reflections.

By Xrayser II.

Summer Flowers

are too numerous to be all mentioned, but I should like to supplement Mr. Roe's list with the names of a few of those comparatively rare in my own neighbourhood which are now in bloom where I am spending my holiday. One of the most noticeable of these is the pyramidal orchis, more beautiful, I think, though less curious than the bee orchis, which is also in flower here; the blue pimpernel and the common rock rose (both lovely) I have found close together on the downs; Eupator's agrimony is common here; hemp agrimony less so, but very noticeable where it is found; of comfrey I have seen but one specimen; of sea-thrift a few; of the horned (yellow) poppy (dear to our Poet Laureate) many; the common avens and centaury abound here, as do eyebright and the herb-Robert crane's-bill; valerian flaunts on all the old walls; the maritime wild carrot (rare, I understand) has been identified, and also the tuberous moschata (*Adoxa Moschatellina*); only one specimen of the nettle-leaved Canterbury bell (*Campanula Trachelium*) have I seen in my rambles here; woad waxen, or dyer's greenweed (*Genista tinctoria*) is fairly common; woundwort (officinal) is still more so; the greater celandine occurs in places, and is still in flower. The list could, of course, be indefinitely extended, but I have omitted all that I am most familiar with. I must not, however, omit (common as it is everywhere) "the little speedwell's darling blue," so dear to Dorothy and William Wordsworth.

Eau de Cologne

is invariably put forward, when the question arises, in support of the contention that perfumes are not mere luxuries, but have a distinct sanitary and medicinal value. If it were adduced simply as a type of a class, this would be very well; but there is no sense in making the argument for the exemption of perfumes from the increased duty on spirits depend upon eau de Cologne in any special sense. There are other perfumes of equal medicinal value, some of which were in popular use ages before eau de Cologne, a comparatively recent invention, was heard of, and if it were to disappear from the world to-morrow the argument for their use would not be materially affected. Perfumes, it is needless to say, are of immemorial repute as healthful adjuncts to the bath and the toilet and for their restorative and refreshing properties in various other ways. Mr. Chamberlain, however, says they are but luxuries, and if by luxuries we mean everything not absolutely necessary to health, there may be something to be said for his view. Even so, there is great strength in the argument that virtually to tax them out of use is bad economy, and to do it is the more strange when scores of other things quite as truly luxuries, and that have no economic value (pet dogs, for example), are not surtaxed.

The Purchasing Power

of customers for proprietaries appears to Mr. Wolff (if I do not misunderstand him) a reason why we should accept unremunerative prices for them. There may possibly be exceptional cases in which this consideration would apply, but I venture to say that they are extremely few, and I may add that any proprietor who tried the argument on me would get a very short answer. If we admit the principle at all, where are we to stop? Logically, we should be in this position: everything that attracts customers for something else is worth selling at a price which in itself is unremunerative. I do not suppose Mr. Wolff would accept this principle as of universal application; he would discriminate, but it is difficult to see how he could do so fairly, either as between different proprietaries or as between himself and his fellow-pharmacists. Every proprietor would think or affect to think himself entitled to a sort of favoured-nation clause, and pharmacists generally would be hopelessly confused and without any solid ground of opposition to extortionate terms.

The Description

of the Trabonella sulphur mine, said to be the largest in Europe, and thirty kilometres long, given by Mr. Festing Jones, in his "Castellinaria and other Sicilian Diversions," reminds me of the reply of a late Nottingham pharmacist to a lady who informed him that she could get sulphur at a penny a pound cheaper at a neighbouring shop. "Yes, madam," he said, "and if you go to hell you can get it for nothing." The Trabonella miners do not get their sulphur for nothing, for they pay for it, almost literally, with their lives, but in other respects the mine is a sort of replica of the infernal regions.

No light, but rather darkness visible
Serves only to discover sights of woe.

"Day after day [says Mr. Jones], always the same monotonous groaning and moaning, always the same monotonous pickaxing the rock in the dim light, always the same monotonous seuding up the broken pieces." As in Milton's hell, "it was very hot in some places, and very cold in others," but the only Lethe of these miners is in the drink-shops outside, which are their alternative to the toil which warps and cripples them in body and mind, till they are incapable of further toil, or, as often happens, a fall of rock puts an end to them and it together. Mr. Jones asked whether shorter hours, better pay, and better conditions of labour were not possible. "But what of the price of sulphur?" was the reply. It would be well if people who haggle about prices would think sometimes of such things as these. A thousand miners work in this mine alone, beginning outside at twelve, inside at fifteen years of age. There is a German poem to the effect that in order that one man may walk in the sunshine of life a thousand daily curse God and die in the darkness. There is too much truth in this, and it will be true as long as labour is bought and sold like a drug in the market. The historian Gregorovius, in his "Siciliana," gives an account of these mines very similar to Mr. Jones's.

Sitting on the Shore

of a little watering-place the other day, reading the *C. & D.*, I was accosted by an elderly gentleman, a perfect stranger to me. "That's a familiar paper you've got there," he said. "You know it, then?" "Know it! of course I do—the most up-to-date paper of its kind that I do know." In the course of the conversation thus auspiciously begun he told me his name (which, however, I did not catch, for the wind was up and the sea making a great noise); that he was in the wholesale; and that he had six or seven travellers in his service. I send you this by way of an "appreciation."

The Rev. John Ward,

student of physic, and some time Vicar of Stratford-on-Avon, about whom Sir D'Arcy Power has been discoursing to the Medical Society of London, must not be confused with Joshua Ward, born some sixty years after him, whose pill and drop found their way into reputable dispensaries and Pope's "Imitations of Horace." He was, indeed, much the more famous, or, at any rate, the more notorious, man of the two, and he occupies a considerable space in the Dictionary of National Biography, in which his namesake, a sound divine and serious student of medicine, has no place at all. He seems to have hesitated for some time between physic and the Church as a career, and he did not confine his attention to these. Sir D'Arcy Power describes him as an epitome of his age [the age of Boyle, Sir Thomas Browne, Sir Kenelm Digby], well read, quite clear in his opinions, with knowledge based on experiment, and yet with a naive credulity which is surprising until we recall how little was then known for certain and how much that is now certain had still to be learnt. Like Joshua Ward, he was strong on the virtues of antimony, but he has much also to say for galenicals, though inclining to the newer school of chemical physic. He never graduated in medicine, but seems to have held the recognised status of student in the art, and practised in it.

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A n announcement of particular
interest to you appears in
this issue on page 16

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Overseas Trade.

Despite the fact that the home trade for some time past
has been depressed, it is satisfactory to note, from the
Board of Trade Returns for June, that overseas com-
merce is excellent, and, except for May, June was the best
trading month of the year. It is, of course, to be

remembered that during 1919 conditions were further from normal than they may even now be regarded; for example, many articles could not be exported except under licence, and many factories which had been on war work for nearly half a decade had not settled to their peace-time activities. The following are the imports and exports during the month under review compared with the corresponding month last year and in 1913:

	1913	1919	1920
	£	£	£
Imports	58,309,519	122,874,390	170,491,230
Exports	42,837,462	64,562,465	116,352,350
Re-exports	8,540,223	11,963,960	20,123,928

Imports are given in "cost, insurance, freight" terms, and exports as "free on board." In contrasting the large increases over the pre-war year the present higher value of manufactured articles must, however, be taken into account. Passing from the general to the particular, the largest item on the export side is that given under cotton yarn and woollens, which showed an increase over June 1919 of 17,344,430*l.*, while iron and steel manufactured goods showed an advance of 6,183,703*l.* It is of interest to note also that only two export items showed decreases over the figures returned for June 1919; these are grain and flour, 220,454*l.*, and oil seeds, oils, fats, resins, etc., 404,992*l.* It is, however, the chemicals, drugs, dyes and colours section with which we are more immediately concerned, and there appears to be considerable activity in these industries, as the following table shows:

	Month ended June 30		
	1913	1919	1920
Acid sulphuric (cwt.)	12,808	1,105	15,060
Acid tartaric (cwt.)	643	720	2,025
Ammonium chloride (tons)	496	451	789
Ammonium sulphate (tons)	22,998	4,695	5,196
Bleaching powder (cwt.)	47,232	23,313	39,798
Coal-tar products (£)	132,230	88,774	174,780
Copper sulphate (tons)	4,201	548	963
Glycerin (cwt.)	21,985	4,315	45,409
Potash compounds (£)	20,884	14,286	78,552
Sodium compounds (cwt.)	627,133	495,873	887,895
Zinc oxide (tons)	255	69	236
Chemicals, other sorts (£)	213,361	323,234	654,659
Drugs, medicines, and medicinal prpns. (£)	184,194	322,774	456,904
Dyes and dyestuffs (cwt.)	23,204	12,306	23,899
Painters' colours and materials (cwt.)	204,231	118,380	112,998

The total values for chemicals, drugs, dyes, and colours in the above table are as follows: Month ended June 30, 1913, 1,499,571*l.*; 1919, 1,766,855*l.*; 1920, 3,311,093*l.* Thus there is the highly satisfactory return of nearly 100 per cent. for June 1920 over the corresponding month last year. Notable increases in exports of sulphuric acid, coal-tar products, glycerin, potash compounds, and other important materials are shown. Quinine figures largely in the returns given for drugs, medicines, and medicinal preparations, the exports of the alkaloid and its salts amounting to 76,631*l.*, compared with 11,754*l.* for the corresponding month last year, the large increase being, no doubt, due to the fact that quinine is now freely allowed to leave the country. The export of opium showed a decline of over 300*l.* compared with the value returned for June 1919, but the figures for the six months show a considerable falling off as contrasted with the six months ended June 1919 (1920, 4,303*l.*; 1919, 95,940*l.*). On turning to the imports of chemicals, drugs, dyes, and colours we find that these increased by over 100 per cent., the actual figures for the months ended June 30 being: 1920, 3,419,550*l.*; 1919, 1,669,911*l.*; 1913, 947,938*l.* Many of the articles included were, however, raw materials. For example, glycerin to the value of 42,720*l.* was imported,

compared with *nil* last June; and sodium nitrate, 489,659*l.*, against *nil* at the corresponding period last year. The import of cream of tartar increased by nearly 60,000*l.* over the figure given for June 1919, the actual values being: 1920, 67,211*l.*; 1919, 7,528*l.* As the present Trade Return completes the first six months of the year, a further comparison is possible. We find that the six months' returns are as follows:

	1913	1919	1920
	£	£	£
Imports	378,746,000	716,787,426	1,033,334,684
Exports	257,060,551	334,756,132	637,466,884
Re-exports	59,050,834	55,434,295	135,891,048

The adverse balance of trade will be seen from the above table to be considerably less than the corresponding one last year, and at the present rate should not greatly exceed in round figures 500,000,000*l.* for the present year—a sum which Britain should be able to clear by means of her investments abroad and shipping dues. It is evident from the figures we have quoted that a process of readjustment of prices such as appears now to be in progress need not necessarily imply a decline in trade, and that compared with the conditions obtaining in other countries Britain has every reason to be satisfied with her progress towards, let us hope, a complete *post-bellum* recovery.

Rents and Possession.

AFTER much discussion, and many changes in both Houses of Parliament, the Increase of Rent and Mortgage Interest (Restrictions) Act became operative on July 2. The Act consolidates and amends the provisions with respect to the increase of rent and recovery of possession of premises which are at present contained in four statutes, of which the earliest was passed in 1915. As its name indicates, the Act applies not only to tenancies, but also to mortgages, and we summarise below the provisions in so far as they relate to the former. The rental limits imposed under the earlier Acts have been extended, and the new Act applies to any premises, whether used for residential or for business purposes, or for both purposes, where either the annual amount of the standard rent (*i.e.*, the rent on August 3, 1914) or the rateable value does not exceed 105*l.* in London, 90*l.* in Scotland, or 78*l.* elsewhere. In the case of premises used exclusively for trade or business purposes, however, certain special provisions apply, and these will be dealt with separately after the main general provisions of the Act have been explained.

The right of a landlord to increase the rent of premises has been considerably extended, the permitted increases being as follows:

(a) An amount calculated at the rate of 5 per cent. upon expenditure incurred by the landlord since August 4, 1914, upon the improvement or structural alteration of the premises, not including expenditure upon decoration or repairs. In the case of expenditure incurred since July 2 the rate of interest allowed is 8 per cent.

(b) An amount not exceeding any increase payable by the landlord in respect of rates over the corresponding amount paid in respect of the period which included August 4, 1914.

(c) An amount not exceeding 15 per cent. of the net rent (*i.e.*, the rent on August 3, 1914, after deducting the rates if they were paid by the landlord). In the case of premises, covered by the earlier Acts, of which neither the standard rent nor the rateable value exceeds 70*l.* in London, 60*l.* in Scotland, and 52*l.* elsewhere, the full increase of 15 per cent. cannot be made until a year after the passing of the Act, and in the meantime the increase must not exceed 5 per cent.

(d) An amount not exceeding 25 per cent. of the net rent in cases where the landlord is responsible for the whole of

the repairs. If the landlord is responsible for part only of the repairs the increase will be reduced to an amount to be agreed upon by the parties, or settled by the County Court in default of agreement.

It will be seen that, apart from increases in respect of improvements or higher rates, the maximum amount by which the rent of a house may be increased is 40 per cent., and that in the case of smaller houses an increase of 30 per cent. only is allowed within the next twelve months. Moreover, the right to make even these advances may be suspended by the county court upon the ground that the house "is not in all respects reasonably fit for human habitation, or is otherwise not in a reasonable state of repair." It seems clear, however, that a landlord's right to enforce the increase in rent would not be forfeited merely upon the ground that the premises were in need of decorative repair, if they were in other respects "in good and tenantable repair." A week's notice of an increase of rent to cover higher rates must be given, and a month's notice of increase in any other case. The notice must also be substantially in the form given in a schedule to the Act.

In the present Act many changes have also been made in the provisions affecting a landlord's right to recover possession of premises in the occupation of a tenant. The cases in which a court will, if it considers it reasonable, make an order for recovery of possession of a house, or for the ejectment of the tenant, are the following:

(a) The tenant is in arrear with his rent or has disregarded some other obligation of the tenancy.

(b) The tenant has been guilty of conduct which is a nuisance or annoyance to adjoining occupiers, or has caused the condition of the premises to deteriorate.

(c) The tenant has given notice to quit, upon which the landlord has agreed to sell or let the premises.

(d) The house is reasonably required by the landlord for occupation for himself, or for any person residing with him, or for some person in his whole-time employment or in the whole-time employment of some tenant from him, and the Court is satisfied that alternative accommodation, reasonably equivalent as regards rent and suitability in all respects, is available.

(e) The landlord became the landlord after service in H.M. Forces during the war and requires the house for his personal occupation and offers the tenant sufficient accommodation on reasonable terms in the same house.

(f) The house is required for occupation by a former tenant who gave up occupation in consequence of his service in H.M. Forces during the war.

In connection with ground (d) mentioned above, it is provided that the existence of alternative accommodation shall not be a condition of an order for possession or ejectment in any of the following instances:

(i.) Where the tenant was in occupation of the premises in consequence of his employment by the landlord and the employment has ceased.

(ii.) Where the landlord gave up the occupation of the premises to serve in H.M. Forces during the war.

(iii.) Where the landlord became the landlord before September 30, 1919; or, in the case of a house to which the Act of 1919 applied, before March 5, 1919; or, in the case of a house to which the present Act applies and the earlier Acts did not apply, before May 20, 1920, and the Court is of opinion that greater hardship would be caused by refusing an order for possession than by granting it.

The Act also contains many important provisions of a more or less subsidiary nature. For example, distress for the rent of any house affected cannot be levied except with the leave of the court; and it is not permissible for a landlord or a tenant to obtain payment of a "premium" or other sum of money as a condition of granting or renewing a tenancy, or of giving up possession of premises, as the case may be. Similarly, restrictions are imposed in respect of rents and charges for furnished apartments. The most important feature of the

new Act is that it is applicable to premises used for business, trade, or professional purposes, in the same way as to houses, subject to the rental limitations mentioned above. This extension of the principle of the Act was strenuously opposed by the Government; but so strong was the feeling of the House of Commons in favour of protecting the tenants of business premises from oppression that the Government was forced to capitulate and bring premises of the nature in question within the ambit of the statute. In the case of business premises, however, the amount of the increase in rent referred to in paragraph (c) above is an amount not exceeding 35 per cent. of the net rent, instead of 15 per cent. in the case of houses. Thus, where the landlord is responsible for all the repairs of a shop, or other business premises, he is entitled to increase the net rent by 60 per cent., irrespective of any advance which he may be entitled to claim upon the ground of structural improvements or higher rates. Again, the court may make an order for possession of business premises upon the ground that they are "*bona fide* required for the purpose of a scheme of reconstruction or improvement, which appears to the court to be desirable in the public interest." The provision of the Act will continue in force as regards business premises only until June 24, 1921, but in the case of houses until June 24, 1923.

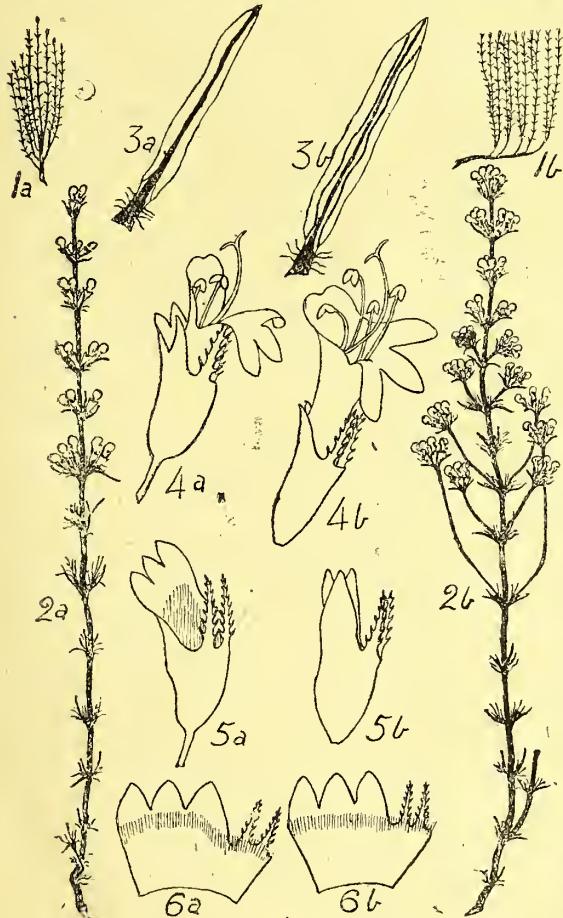
Rebate of Spirits Duty.

The debate which took place in the House of Commons on Clause 4 of the Finance Bill revealed a frame of mind in some of the speakers which was wholly out of touch with the realities of the situation dealt with. The clause, as our readers may remember, is that which provides for the granting of a rebate of duty payable under the Bill on spirits used in medicinal preparations or for scientific purposes. One member pointed out that the concession asked for was made during time of war, and this he looked upon as establishing the proposition that it ought to be made during peace also! Another member, supporting the proposal that a rebate should be granted of the duty on all spirits used in hospitals, said that the position was that if the spirit is mixed with drugs the rebate of duty is allowed, but if it is mixed with water instead of with drugs the duty is charged. This he appeared to think was a distinction which has no foundation in reason if spirits are prescribed, with whatever they may be mixed; this ought to entitle to exemption from the duty. But all this disregards the basic fact upon which the principle of the exemption from duty rests. A spirit mixture may be potable or it may not. If it is potable, and so can be used as a beverage, its use, free of duty, would necessarily displace an equivalent quantity of duty-paid spirit, and so result in a loss of the duty on the spirits which would otherwise have been consumed. To provide against spirit mixtures under the name "medicinal preparations" being sold for use as beverages, the Commissioners of Customs and Excise lay down certain conditions designed to prevent their use otherwise than as medicine. Naturally enough, one of these is the addition of something such as a drug which interferes with the use of the preparation as a beverage. Equally clearly, the mixing of spirits with water does not make the spirits unpotable. Hence the distinction which eluded some of the members in the debate. Then, too, we could not help being struck with the implicit faith which some speakers appeared to have in the rectitude of a course which had the warrant of a doctor's prescription. It is a truism that human nature does not essentially differ all the world over, and we have quite recently had the case of a medical man in Canada, where alcohol could only be had on a medical prescription, the chief part of whose income was derived from liquor prescriptions.

Spanish Thyme.

INTEREST in the thymes of Spain has been aroused by the recent announcement (C. & D., June 12, p. 58) of the arrival in this country of the species which is at present being used as a source of thymol. There are at least two dozen species of *Thymus* which occur in Spain, and several of them are of interest. The common thymes of these islands, *T. vulgaris* and *T. Serpyllum*, grow also in Spain; indeed the former, known as "Tomillo comun," is a native of Spain, and is said to have been introduced into Britain about 1548 or earlier. Spanish verbena oil is obtained from *T. hyemalis*, a species closely allied to the "lemon thyme," *T. citriodorus*. *T. Mastichina*, known as "Tomillo blanco," is also a well-known species, which yields oil of wood marjoram, although in Portugal the wood marjoram or "ouregao do mato" is another species—i.e., *T. zygis*. *T. Mastichina* was used in Britain at the end of the eighteenth century as an ermine under the name of *Marum vulgare*, or common herb mastich. The flowers are white, not the usual purple; hence the Spanish name. Still another species is *T. Loscosii*, known as "Tomillo Sanjuanero." This is not at present of economic importance, but it is common in Aragon and elsewhere.

Interest at present, however, centres in the thymol yielding species, *Thymus zygis*, L., which adds one more to the list of species containing this valuable phenol.



THYMUS ZYGIS, L.

FIGS. 1A TO 6A VAR. GRACILIS. FIGS. 1B TO 6B VAR. FLORIBUNDA.

These already included *T. vulgaris*, *Ocimum viride* of the Seychelles, *Monarda punctata* or American horsemint, among the Labiate, and *Carum copticum* in the Umbelliferae. The distribution of these species, both

geographically and botanically, suggests that there are still a number of undiscovered sources of thymol. The most important point in the botanical identification of the specimens sent to Mr. H. Rubeck is that they all belong to one particular variety of *Thymus zygis*, L. There are two well-known varieties—namely, var. *gracilis*, Boiss., and var. *floribunda*, Boiss., and all the specimens yet examined are of the first kind. *Thymus zygis*, L., var. *gracilis*, Boiss., is therefore the correct botanical name of the new source of thymol. It is important that this should be recognised at an early stage, since it is quite probable that the var. *floribunda* may yield an oil with characters and content quite different from those of the oil obtained from var. *gracilis*. Producers of thymol should be quite certain of their raw material, and before var. *floribunda* is used a thorough investigation of a sample of the oil is suggested. In order to make identification of genuine var. *gracilis* easy, the differences between the two varieties are given below.

Thymus zygis, L., is common almost throughout Spain and Portugal, occurring in oak and other woods, in deserts and dry, gravelly places among the sierras of the central, eastern, and southern provinces; at Lérida and Balaguer, in Catalonia; at Fraga, Odón, Zaragoza, Benasque, Tarazona, and at an altitude of 5,000 ft. on the Peña de Oroel, in Aragon; at Béjar, in León; at the monastery of Santa Espina, on Mount Torozo, at Valladolid, Venta de Baños, Alar de Rey and Cervera in Castilla la Vieja; at numerous places throughout Castilla la Nueva; at Murviedro and Valldigna, in Valencia; at Archena and Albacete and on the Sierra de Segura in Murcia; at numerous places throughout Andalucia; at Alange, Membrio, and in the environs of Plasencia, in Extremadura; and at Tras-os-Montes, in Portugal. As a consequence of its wide distribution the common names for the plant vary greatly. In Portugal it is known as "Ouregao do mato," or wood marjoram; in the Balearic Islands it is called the "Señorita de flor blanca"; in Catalonia it is "Ferrigola" or "Farigola salsera"; but the Castilian names are still more varied. The most frequently occurring is "Tomillo salsero," or sauce thyme, from its use as a condiment; others are "Thymo de España," "Tomillo salsero de Toledo," "Tomillo áspero," or rough thyme; "Serpel de peñas," or rock thyme; "Ajedrea menuda española," or common Spanish winter savoury (the true winter savoury is *Satureja hortensis*, another Labiate); "Tomillo terrero" or humble thyme; "Tomillo aceitunero" and "Tomillo de aceitunas," or olive thyme; and "Almoradux de la tierra en Ronda," or sweet marjoram of Ronda.

The species *T. zygis*, L., is very similar to *T. sylvestris* and *T. vulgaris*, but is easily distinguished by the comparatively large white hairs or cilia at the bases of the leaves. Linne noted this when he described the species as "Facies *T. vulgaris* at *Folia basi ciliata*." The flowers are described as purple or white, and the white form is evidently the only one occurring in the Balearic Islands. The two varieties were first described by Boissier ("Voy. bot. dans Le Midi de l'Espagne," (1839-45) under the name *T. tenuifolius*, but he afterwards agreed that his species *tenuifolius* was exactly the same as Linne's *T. zygis*. The species was known to Theophrastus as *Serpyllum zygis*, and var. *gracilis* is figured under that name by Barrelierus ("Icon. Plant. Gal. Hisp. et Ital.," Tab. 77, 1714).

Thymus zygis, L., var. *gracilis*, Boiss. This variety differs from var. *floribunda*, Boiss., in its simple branching habit (figs. 1a and 1b). The linear leaves have their margins incurved to the midrib (fig. 3a), and part of the lamina cannot be seen as in *floribunda* (fig. 3b). The partial inflorescence is the usual cluster or verticillaster; in var. *gracilis* all the clusters are practically sessile in the axils of the bracts (fig. 2a), but in *floribunda* the lower clusters are raised on quite long stalks (fig. 2b). This is quite a striking difference when the plants are in flower. The flower itself in var. *gracilis* has a short pedicel or stalk (fig. 4a), while that of *floribunda* is quite sessile (fig. 4b). The corolla is more deeply inserted into the calyx, and the long stamens are not exserted to the same extent (fig. 4a) as in *floribunda* (fig. 4b). The

calyx is two-lipped, with three ovate lobes in the upper and two ciliate awns in the lower lip. These lips diverge more in *gracilis* (fig. 5a) than in *floribunda* (fig. 5b), the upper lip in the former being almost recurved in the mature calyx. At the throat of the calyx tube, on the inside, is a line of hairs, and this line dips down to the more deeply cleft lower lip in *gracilis* (fig. 6a), whereas it is almost straight in *floribunda* (fig. 6b). The stations recorded for var. *gracilis* are in Castilla la Nueva around Madrid in the Casa de Campo; in Murcia at Hellín, and between Totana and Lorca; in Andalucia between Alhama and the brow of Sierra Tejada, and in the pinewoods of Puerta Real. This variety is, therefore, not such a decided alpine as var. *floribunda*, which occurs at an altitude of 3,500 to 4,000 ft. in the environs of Chesa and Setiles, and at Molina in Castilla la Nueva; in Murcia; and at an altitude of 3,000 to 5,000 ft. on the Sierra de Gador, on the Sierra Nevada between Cadiar and Trevelez, and on the heights of Granada in Andalucia.

It will be seen that, while some rather fine distinctions in the flowers are necessary to establish the identification of the varieties, they can be distinguished in the absence of the flowers by the greater recurving of the margins of the leaves in var. *gracilis*, and still more easily by the general habit; var. *gracilis*, when dried, yields compact bundles of stems, each bundle being one plant, while var. *floribunda* yields a loose, somewhat tangled mass, because of the creeping, rhizomatous habit of the main stem. The species as a whole is widespread and common, but it remains to be determined whether careful conservation and possibly cultivation are necessary; var. *gracilis* is more easily collected on account of its lower stations, but those at present known are few, and further unguarded exploitation of the wild plant might result in the substitution of var. *floribunda*, with possible discredit to the reputation of Spanish thyme as a source of thymol.

CABALLERO. (97/20.)

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

NATIONAL HEALTH INSURANCE.

Dr. Addison stated on July 12 that the total cost of National Health Insurance from its inception to December 31, 1919, was in round figures 190,000,000*l.*; the amounts paid in benefits and administration were 99,000,000*l.* and 25,000,000*l.* respectively, leaving a balance in reserve at that date of 66,000,000*l.*

PROFITEERING ACT ADMINISTRATION.

Sir Robert Horne stated in the House of Commons on July 12 that the total expenditure incurred to June 30 in the administration of the Profiteering Acts by the Central Committee and its Sub-Committees was 18,615*l.* 14s. 1d. This figure does not include the cost of stationery, office rent, or lighting.

FINANCE BILL.

The Committee stage of the Finance Bill has been continued during the week. On July 7, Clause 17, which differentiates between married and unmarried persons in that it makes an allowance in the assessment for a wife, was passed after a long debate. Clause 31, which will increase from 1*d.* to 2*d.* the receipt stamp on money payments amounting to 2*l.* and upwards, was agreed to. On July 12, Clause 40, which continues and increases to 60 per cent. the rate of excess-profits duty was carried, notwithstanding the condemnation of most of the members who spoke. Clause 44, which imposes a corporation profits tax, was the chief business of the House on July 13. An attempt was made to obtain the exemption of co-operative societies from the tax, but this was defeated on a division.

LEMONADE POWDERS.

Mr. Hogge, on July 13, asked the Chancellor of the Exchequer whether his attention has been drawn to the large increase in the manufacture of lemonade powders;

and whether, in view of the duty charged on all aerated-water manufactures, he proposes to deal in any way with this anomaly.

Mr. Chamberlain replied: The answer to the first part of the question is in the negative. As regards the second part, I would remind the hon. member that aerated-waters are liable to duty on sale only, and are then liable whether made from lemonade powders or from other materials. Aerated-waters made in a private household for domestic consumption, and not for sale, are not liable to duty, and beverages made by the use of lemonade powders have no special advantage in this respect. In the circumstances it is not proposed to take any action.

INDECENT ADVERTISEMENTS BILL.

The Bill with this title, which has just been introduced by a private member to make further provision with respect to indecent advertisements and notices, cannot, of course, be proceeded with during what remains of the present session. It is of interest to note, however, that some time ago the Home Office prepared legislation on the question founded upon the report of the Select Committee which sat under the chairmanship of Earl Beauchamp. In this the Committee dealt with, among other aspects of the question, the matter of lotteries, which has since been disposed of by the Government, and also with newspaper competitions, and in regard to indecent literature and pictures they suggested that the Obscene Publications Act of 1857 should be so amended as to enable warrants to be issued by night as by day, which is not the case at the present time. They also recommended the repeal of all existing legislation on the subject, and that offences in regard to indecent advertisements should be dealt with summarily and left to the absolute discretion of the magistrates. Another recommendation of importance was that the Foreign Secretary should be requested to ascertain the views of all foreign Governments as to the possibility of some international agreement being arrived at designed to check the existing trade in indecent articles of every description.

GERMAN DYES.

Lieut.-Colonel Pickering, on July 8, asked the President of the Board of Trade if he is aware that America has arranged to import a large quantity of German dye-wares; that the country is urgently in need of these dye-wares; why the Board of Trade have hitherto informed all inquirers that no German dye-wares are available for this country; is it the definite policy of the Government to compel manufacturers to purchase their dye-wares from British Dyes, owing to the Government's financial interest in that company; and is he also aware that this company cannot satisfy the requirements of manufacturers in certain dyes, and that the inability to obtain suitable dyes jeopardises the sale of finished products in neutral markets.

Mr. Bridgeman, who replied, said he was aware that America has arranged to import a certain quantity of German dyestuffs. There is, no doubt, a demand for German dyestuffs in the United Kingdom, but the member is mistaken in thinking that the Board of Trade have stated that these goods are not available for this country. Since last December there has been no prohibition of the import of any dyestuffs into this country, and we are securing supplies of dyestuffs from Germany under the Reparation Scheme. Even during the period of prohibition of importation except under licence, special arrangements were made to secure from Swiss manufacturers dyes which were not available from other sources. As to the relation of the Government to British Dyestuffs Corporation, they are under an obligation to safeguard the dye industry in this country, and for that purpose to control importation. This obligation must be carried out in due course. It is no part of their policy to compel British manufacturers to purchase dyestuffs from any one British firm.

THE Incorporated Society of Chiropodists has opened a new clinic at 98 Charlotte Street, London, W. 1. It is stated that during the war 25,000 persons received free treatment at the old clinic.

Aldersgate Athletic Club.

Opening of Sports Ground.

ANYONE who entered Aldersgate Street Station, in the City of London, about eleven o'clock on the morning of July 10, must have been struck by the aspect of one of the platforms, which was filled with people of all ages wearing red, white, and blue ribbons. A few minutes after the hour a special train drew up, and, in almost less time than it takes to write this sentence, departed filled with the beribboned throng. Rather more than a year ago one of the directors of S. Maw, Son & Sons, Ltd., announced that the board had secured ground adjoining Hadley Woods, New Barnet. This space, extending over nearly twenty-three acres, has, within the past few months, been transformed into an ideal sports ground, with a solidly built pavilion comprising a concert hall, dressing rooms, and a kitchen. A new factory has also begun to make its appearance. The factory is to consist of seven sections, arranged on opposite sides of a covered road, having a floor-space of 11,000 ft., with provision for extension upwards. It was a bold step to decide on a new "pitch" a dozen miles from Aldersgate Street; but those who have reason to know are confident that the policy will be amply justified, and that the Monken Hadley Estate will, in due time, fulfil an important function in the destinies of the house of Maw.

At New Barnet, then, the train stopped; and on a wide space outside the station some hundreds of the staff halted while a photographer, perilously perched on the top of an office, waved them into a group and snapped them. This done, they found their way to the ground, guided by a series of placards comprising a triangle, the discobolus, and the letters "A A C"—which placards must have greatly mystified the inhabitants of the town. The formal opening of the pavilion, a gift by Mrs. E. R. Maw in memory of her husband, Mr. Charles Trentham Maw, the late chairman of the company, was brief and dignified. Mr. Albert F. Porter, the managing director, made an introductory speech, referring in eloquent terms to the interest of the late chairman in all kinds of sport, and to the esteem in which he was held. Mr. Porter also read a charming letter from Mrs. Maw, who had written expressing regret that she could not be present, and hoping that the new departure would serve the purpose they all had at heart. Mr. Mowbray T. Maw then unlocked the pavilion, "in Mrs. Charles Maw's name," and the gathering entered and took up positions in front of a memorial tablet. After a heartfelt tribute to Mrs. Maw from the President of the Club, the tablet was unveiled by Mr. Norman Maurice, an old personal friend of the late Mr. C. T. Maw. Under a large portrait framed in oak, the tablet bears the inscription: "This pavilion was erected to the memory of Charles Trentham Maw by his wife. A.D. 1920." Mr. Mowbray Maw added, in a few genial sentences, an explanation of the purpose of the directors in purchasing the ground, and the ceremony ended with the National Anthem, played by the Barnet Discharged Soldiers' and Sailors' Band. An excellent luncheon, served in large marquees, followed, the band playing meanwhile a selection of lively music. During the pauses in the conversation at table there were opportunities of following the counsel of the programme to "look out for the buttons," the buttons in question being worn as tokens of length of service with the house of Maw. There were six classes of buttons, headed by the gold ones indicative of over fifty years' service. There were seven of these in evidence—and, in this connection, it should be recorded that special arrangements were made for conveying to the ground some who were too infirm to travel by train. During the afternoon the C. & D. representative made a tour of the ground, beginning with a smart little Press tent thoughtfully provided by the directors. Cricket, tennis, and bowls were already in full swing, and an ambulance tent represented the last word in first-aid equipment. One section of the factory had already taken to itself a roof, and it was evident that it will be ideally light and spacious.

A glance at the four-page programme showed that there was no lack of entertainment. A list of about two dozen sporting events filled the afternoon, and after tea the prizes were distributed by Mrs. H. T. Maw, Mrs. M. T. Maw, and Mrs. A. F. Porter, to each of whom a bouquet was presented. The evening was occupied by a concert and dance, the concert being contributed to by several members of the staff. The weather was not all that could be desired; but the high spirits of the happy throng triumphed over this handicap, and all present felt that the organisation was perfection itself. With the opening of this superb ground, the Aldersgate Athletic Club, now in its fifty-fourth year, has taken a new lease of life.

Summer Outings.

By Motor to Bridgnorth.

THE recent annual outing of the Wolverhampton Chemists' Association took the form of a motor drive to the picturesque town of Bridgnorth. The town is situated on the Severn, and consists of a "Low Town," clustering on the river banks, and the "High Town," approached by a winding road or up steps. The party on arrival went up the steps (a few used the lift) and, after seeing the old gateway with the old town hall and the shops (most of these, including the three pharmacies, are in the High Town), went to the Castle grounds and examined the leaning tower. The party next visited a baby show, and then went to the Falcon Hotel to tea. After tea several went on the river and others took a walk along a winding pathway to the High Rock about 200 feet above the river, where on a fine day a splendid view of the Severn is obtained. Wolverhampton was reached on the return journey at 9.30.

Combined Picnic.

ABOUT sixty Newcastle-upon-Tyne and Sunderland pharmacists, their wives, and friends accepted the invitation of the Durham Pharmacists' Association to a picnic at Durham on July 7. The party proceeded in the first place to the Cathedral, where the chief points of interest were explained. It had been arranged that a visit should also be paid to the Castle, but the Assize Judges being in residence this was not possible. After a pleasant ramble along the wooded banks of the Wear, the party were conducted to the Old Durham Pleasure Gardens, where tea was served in the rooms overlooking the courtyard. Skittles and a programme of outdoor sports in the adjoining meadow followed, arranged by Mr. W. Stephenson (Newcastle Association) and Mr. R. S. Backhouse (Durham Association). The winners in the ladies' obstacle races were Miss Simpson (Felling-on-Tyne) and Mrs. MacLaren (Sunderland), to whom the prizes given by the Durham Chemists were presented by Mr. W. Kerse (Newcastle Association). The men's sandwich race produced a good winner in Mr. J. F. Simpson (Felling-on-Tyne), while Mr. F. Parker (Newcastle-on-Tyne) won the men's tortoise race. The tug-of-war competition—Newcastle and Durham *versus* Sunderland—for the Delavel Cup resulted in a win for Sunderland. Mr. C. Hodgson, President of the Sunderland Association, at the conclusion of the sports proposed a vote of thanks to the Durham pharmacists. This was seconded by Mr. T. H. Flemming, President of the Newcastle Association.

Wills.

MR. WILLIAM SPEER, 30 Oakfield Road, Clapton, of W. R. Speer & Son, Pembury Road, London, E., who died on June 9, left estate of the gross value of £1,446*l.* 15*s.*, with net personality £1,368*s.*

MR. JAMES AUSTIN STACEY, 31 Crescent Grove, Clapham Common, London, S.W., for thirty-four years secretary of the Early Closing Association, who died on April 12, left estate of the gross value of £1,474*l.* 16*s.* 6*d.*, with net personality £1,380*l.* 13*s.*

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Warwickshire.—A meeting of the Pharmaceutical Committee was held at Leamington on July 7, Mr. Hutton in the chair. It was reported that prescriptions not marked "Urgent" by the doctor are still being received for dispensing after 8 p.m. The secretary was instructed to report such cases. The request for a higher advance payment per script will be dealt with at the Insurance Committee's next meeting. It was decided to take no further action in the case of a doctor who had taken up dispensing for his Panel patients within fourteen days of the 1920 Medical Benefit Regulations coming into force. Pharmacists in the area are to be informed that capsicum and thermogene wool, being appliances, in the opinion of the Ministry of Health, should not be supplied on Insurance scripts. Mr. Williamson, of Coventry, was invited to become a member of the Committee. It was resolved to continue in office until December 31, but to send out the usual July report and financial statement. The sum of 25/- was voted to the Checking Bureau, on account for 1920. Some 173,144 prescriptions were dispensed during 1919, and 6,199/- 19s. was paid to pharmacists in the area, the average value per prescription being 8.6d. The average value per prescription for the last quarter, 1920, was ascertained to be 10.35d.

Wolverhampton.—Mr. F. J. Gibson, J.P., chemist and druggist, has been re-elected chairman of the Benefits Sub-Committee of the Insurance Committee. The following are the statistical data of prescribing for the quarter ended March 31:

No. of prescriptions	...	...	26,751
No. of persons on doctors' lists	...	31,541	
Average price	...	5.08d. per prescription	
" dispensing-fee	...	5.01d. "	
" total cost	...	10.09d. "	8.56d. per insured person
Frequency	...	...	0.85 "

Lawes, Ltd., have applied for and have been placed on the list of persons supplying drugs and appliances.

Complaint against a Doctor.

Referring to the inquiry held at Birmingham on April 17, to investigate representations made by the Warwickshire Insurance Committee against Dr. John Orton Hollick, of Dorridge, Knowle, the decision of the Minister of Health is that Dr. Hollick should not be removed from the doctors' panel. The Insurance Committee's costs are to be borne by the practitioner. The communication further states that, in view of the findings of the Inquiry Committee, which disclose breaches of the terms of service of Insurance practitioners of a most serious character on the part of Dr. Hollick, and of the facts brought to the Minister's notice in connection with previous complaints against this practitioner in 1917 and 1918, the Minister has arrived at his decision not to remove Dr. Hollick from the panel only after considerable hesitation. While, however, he does not propose to take this extreme course, he is satisfied that the facts disclosed are so grave as to warrant his withholding the sum of £100 from the Exchequer grant payable to the Insurance Committee, and this will be done. This sum should, in accordance with Article 33 of the Regulations, be recovered by the Insurance Committee by deduction from Dr. Hollick's remuneration or otherwise. Having regard to the repeated expressions of opinion by the General Medical Council as to the importance of proper care and recognition of responsibility in the issue by medical practitioners of medical certificates of all kinds, and the express warning that has been issued by that body to the profession in that connection, the Minister has decided that the facts of Dr. Hollick's conduct in this respect, as illustrated by the present and previous cases, should be brought under the notice of that body.

SCOTLAND.

Dispensing Statistics.—Statement by the Drug Accounts Committee of the Central Checking Bureau, Glasgow, showing, in respect of the first quarter of the years 1915 to 1920, the number of forms allowed, the value, and average price, in respect of the whole of Scotland:

Year	No. of Forms	Total Value	Average Price per Form
1915	730,679	28,977/- 0s. 5d.	9.51d.
1916	531,573	23,433/- 10s. 3d.	10.58d.
1917	536,756	21,400/- 16s. 2d.	9.56d.
1918	471,037	21,990/- 19s. 1d.	11.20d.
1919	606,904	30,669/- 6s. 6d.	12.12d.
1920	584,896	40,286/- 19s. 1d.	16.53d.

Association Affairs.

Bournemouth.—A meeting of the Bournemouth Pharmaceutical Association was held at Gervis Hall on June 29, the President, Mr. H. J. Martin, in the chair. Before commencing the usual business, the President referred to the great loss the Association had sustained in the death of Mr. J. H. Scampton, past President, and for many years secretary of the Association, and a vote of condolence was passed, all standing. Congratulations were accorded to Mr. F. E. Bilson on his re-election to the Pharmaceutical Council and to the post of treasurer. Letters from the secretary of the South-Eastern Area of the Federation were read and discussed, and the President gave a report of the last meeting of delegates of the Federation in London on June 2.

Ealing.—On July 7 a party numbering about thirty of the members of the Ealing Pharmacists' Association, together with their photographic assistants, paid a visit to the works of Kodak, Ltd., at Harrow. The members were welcomed and conducted round the factory by Mr. West and Mr. Hardman. The developing and printing department was of special interest. The printing is done by mercury vapour lamps; at each one four girls are printing, and two developing, all day long. A Cascade washing-tank is used for prints, and a huge drying-machine. Next came the chemical laboratories and the Wratten Department, where the x-ray plates are tested and light filters are prepared. Tea was then served in the recreation hall, and, before leaving, Mr. Marns, on behalf of the party, thanked Messrs. Kodak for their kindness.

Walthamstow.—About thirty members of the Walthamstow Pharmaceutical Association availed themselves of the invitation of Parke, Davis & Co. to visit their laboratories and works at Hounslow on July 8. A charabanc met the party at Liverpool Street Station, and conveyed it, via Hammersmith, to Hounslow. Representatives of the firm conducted the party round the various departments. The method of filling and sealing ampoules, bottling adrenalin, the separation of the pituitary glands from sheep, the filling of capsules by hand and by machinery, the gelatin, chocolate, and pearl coating of pills and tablets were a few of the many interesting things seen. The party was afterwards photographed and entertained to tea. Mr. Holderness, on behalf of Parke, Davis & Co., welcomed the members of the Association, and the President (Mr. A. M. Brown) thanked the firm for the invitation. The charabanc returned via Richmond, Barnes and the Embankment.

Warwickshire.—A meeting of the Warwickshire Pharmaceutical Association was held at Leamington Spa on July 7, Mr. Hutton presiding. It was decided, with the assistance of the other associations who nominated and supported Mr. Davis, to defray the expenses he incurred at the recent Council election. The President, Mr. Nundy (hon. treasurer), and the secretary were appointed a sub-committee to carry out the work which would be involved in compiling the proposed war record. The secretary appealed for members for the British Pharmaceutical Conference, and consented to act as delegate for the Association at the Liverpool meeting. The Garrison Memorial Fund was also dealt with.

Glycerin from Sugar in Germany.

THERE was one question, affecting every individual, young and old, in Germany during the war that gave rise to a great amount of speculation and discussion, also to many rumours, and yet remained unsolved. This was the shortage of sugar that Germany experienced as the war dragged on, necessitating the rationing even of saccharin as a substitute, and affording an exceedingly profitable field of activity to the "Schieber" (the swanglers), who supplied sugar illicitly at prices attaining as much as six marks for a pound, although it used to be freely said that it was often easier to purchase illicitly a whole truckload than procure a pound, unless one had good "connections." The sudden disappearance of this commodity from the market was all the more inexplicable in view of the well-known fact that Germany was one of the principal sugar-producing countries, and had very large stocks on hand. In view of the important rôle which sugar plays in our daily life, and the universal interest taken in this valuable commodity, a few figures selected from the publications of the Imperial German Statistical Department for 1914, 1913, and 1919, which we are now able to present to our readers, are deserving of study, and afford some food for thought. Twelve countries figure as the principal producers of beet-sugar, while cane-sugar is supplied by twenty-three countries and colonies. The following are the leading sources of supply, with the amounts in tons produced in 1913:

		Cane Sugar
British India	...	2,592,934 tons
Cuba	...	2,428,537 "
Java	...	1,331,180 "
Hawaii	...	488,213 "
Porto Rico	...	350,323 "
United States	...	327,900 "
		Beet Sugar
Germany	...	2,435,694 tons (refined sugar)
Austria-Hungary	...	1,709,262 "
Russia	...	1,234,933 "
France	...	877,656 "
United States	...	543,147 "
Belgium	...	268,740 "
Holland	...	284,580 "
Italy	...	213,632 "
Denmark	...	149,400 "
Sweden	...	131,962 "
Rumania	...	34,173 "

We are now in possession of the statistics showing the production of sugar from beet in Germany during the war, and of the number of sugar refineries in operation, and these figures are certainly interesting:

Year	Number of Factories	Tons of Beet	Tons of Sugar	Tons of Molasses
1914	341	16,939,979	2,617,937	375,643
1915	333	15,964,518	2,468,144	394,706
1916	320	9,625,108	1,522,635	245,658
1917	316	9,570,777	1,561,508	208,297
1918	312	9,229,939	1,566,255	228,510

It is even possible to supplement these figures by another fact, showing the decline in productiveness of the workmen during the war, since the following figures show the amount of tons of beet treated by the workmen in a twelve-hours' shift:

1914=355 tons	1917=277 tons
1915=330 "	1918=260 "
1916=234 "	

Great Britain was by far Germany's most important purchaser of beet-sugar, the figures for 1913 showing that this country imported 320,839 tons of refined sugar, double the amount imported in 1912, to a value of 81,921,000m., and 465,680 tons of crude sugar, value 95,147,000m.; the next country on the list being Switzerland (11,360 tons of refined sugar), or Holland (19,246 tons of crude sugar).

We now come to a consideration of some even more significant figures, as we are now in possession of the amount of sugar actually available in Germany, and also

of the stocks in the country on August 31 of each year. To facilitate a study of these interesting data, the annual total production of sugar in Germany is also included:

Year	Total Production calculated as Crude Sugar	Inland Consumption	Stock in Hand August 31
1913	2,706,327 tons	1,282,309 tons	238,746 tons
1914	2,715,870 "	1,286,848 "	423,491 "
1915	2,510,102 "	1,523,747 "	515,505 "
1916	1,515,316 "	1,523,570 "	157,417 "
1917	1,557,930 "	1,183,177 "	314,179 "
1918	1,541,062 "	1,327,987 "	263,561 "

Incidentally it may be mentioned that the only outside supplies of sugar which entered Germany during the war consisted of 443 tons in 1914-15, of which 380 tons were cane-sugar; 8 tons of cane-sugar in 1915-16; and 1 ton of beet-sugar in 1917-18.

Where was the sugar? was the question asked by the German unable to obtain any, and rumour whispered that large quantities were required for the manufacture of munitions, of gas-masks, of alcohol; while other sapient "politicians" maintained that the all-wise Government was holding back all the sugar as a powerful trading asset when peace came, as the whole world would be clamouring for sugar, and the German stocks would represent an immediately available realisable capital. It is a well-known fact that during the alcoholic fermentation of a solution of sugar glycerin is produced to a maximum of about 3 per cent. of the sugar present. The shortage of fats precluded the use of the usual source of glycerin, while the urgent demand for the latter necessitated the supply of more or less, generally less, suitable substitutes, of which there was a multitude; at the same time a search was made for other means of producing glycerin from available materials. A process was patented in 1915, based on the biochemical production of glycerin from sugar, of which particulars have recently been made public by Constein and Lüdecke. The observation had already been made that the addition of alkali to a solution of fermenting sugar resulted in an increased production of glycerin. Experiments were undertaken with a number of salts having an alkaline reaction, such as sodium acetate, sodium bicarbonate, sodium diphosphate, and also with ammonium carbonate. The addition of these salts to a solution of sugar resulted in increasing the yield of glycerin to a maximum of 12.7 per cent. of the sugar employed, but presented the disadvantage of favouring the growth of acid-producing bacteria, thereby providing an unwelcome impurity. This drawback was finally overcome by adding sodium sulphite to the sugar solution, which, while devoid of any inhibitory action on the activity of the yeast cells, destroyed the acid-producing bacteria. By this means it was found possible to raise the yield of glycerin to as much as 36.7 per cent. of the sugar present in the solution. The presence of sodium sulphite had another effect on the process of fermentation of the sugar; coincidentally with the increased yield of glycerin, the amount of aldehyde produced also increased, while that of alcohol and of carbon dioxide diminished. The production of aldehyde, however, was by no means a drawback; on the contrary, it was a welcome addition, since large quantities were required for various purposes connected with the war. That this method of obtaining glycerin, while depriving the German of his sugar, was by no means an insignificant item in the conduct of the war may be gauged from the fact that it is stated that the utilisation of this process was carried out on a large scale, and yielded as much as 1,000 tons of glycerin a month. This would account for a comparatively small proportion of the sugar withdrawn from consumption, and further disclosures of other uses to which the sugar was put may be awaited with interest.

In this connection it may be noted that whereas in 1913 only 52,000 tons of beet extract was used in the production of alcohol, this figure increased to 298,000 tons in 1914-15, and to 414,000 tons in 1916-17, while the official statistics for 1917-18 regarding the production of alcohol (235,804,700 litres) include among the many raw materials used, 1,421,000 tons of potatoes, 69,000 tons of wheat, 256,000 tons of beet extract; also 463,200 litres and 94,000 tons of "other materials," which are not specified.

Reviews of Books.

Annual Reports of the Progress of Chemistry for 1919. Issued by the Chemical Society. Vol. XVI. 8½ x 5½ in. Pp. 234. 4s. 6d. (London: Gurney & Jackson, 33 Paternoster Row, E.C. 4.)

An excellent review of the progress made in 1919 in the different branches of chemistry. The sections are: (1) General and Physical Chemistry, by Dr. H. M. Dawson; (2) Inorganic Chemistry, by Mr. E. C. C. Baly; (3) Organic Chemistry, by Dr. J. C. Irvine, Dr. R. Robinson, and Dr. A. W. Stewart; (4) Analytical Chemistry, by Mr. C. Ainsworth Mitchell; (5) Physiological Chemistry, by Dr. G. Barger; (6) Agricultural and Vegetable Physiology, by Dr. E. J. Russell; and (7) Crystallography, by Mr. T. V. Barker. The reports are of general interest to chemists, and some of the subjects are of special importance to pharmacists. The work of the contributors is very well done, although it is a little disconcerting to be told, regarding Professor W. H. Perkin's paper on cryptopine, that a summary would be too long for inclusion in the report. The reader therefore has to refer to the paper, which occupies seventy-eight pages of the Society's Transactions.

Manual of Toilet Soap-making: comprising Toilet Soaps, Medicated Soaps, and other Specialities. By Dr. C. Deite, translated by Arthur H. J. Keane. Second edition. 10 in. x 6 in. Pp. 353. 21s. (London: Scott, Greenwood & Son, 8 Broadway, Ludgate, E.C.)

The earlier chapters deal with the fats and alkalies needed for soap-making, the colours, and the perfumes; then follows information about the soap-making plant and the processes used in preparing soap, including a large number of recipes. The latter half of the book tells how to make stock soaps, shaving-soaps, transparent soaps, soft and liquid toilet-soaps, bath-soaps, tooth-soaps, medicated soaps, stain-removing soaps, metal-polishing soaps, etc., followed by chapters on the testing of soaps. Some of the ingredients in the various soaps may not be obvious at first sight, but are easily recognised when one remembers that the work is translated from the German. Examples are "China bark," "bloodstone," and "finest eleutriated burnt snow-white sinter." Moreover, the war has taught us that the perfumes and proprietary soaps of German manufacture are not indispensable. The book is a useful one to chemists who desire to produce special toilet or medicated soaps.

Text-book of Inorganic Chemistry. Volume IX. Part I. Cobalt, Nickel and the Elements of the Platinum Group. By J. Newton Friend, D.Sc., Ph.D., F.I.C. 9 in. x 6 in. Pp. 367. 18s. (London: Charles Griffin & Co., Ltd., Exeter Street, Strand, W.C. 2.)

We have previously referred to this series of books on chemistry which Dr. Newton Friend is editing. The complete series is to consist of ten volumes, each dealing with definite groups of elements as classified in the periodic table. Several volumes have yet to be published, but those that have already appeared have become established as standard works for students and for reference purposes. Volume IX., dealing with Group VIII., has been divided into two parts, the present one and the second, which is to deal with iron. Each element is treated on a system—occurrence, history, preparation, physical properties, chemical properties, atomic weight, uses, alloys, compounds, etc.—which summarises present-day knowledge on the subject. In addition, references are given to the sources of information, so that advanced students may refer to the original memoirs if further details are required. As an example of the utility of the system adopted, an instance of interest to radiographers who have been baffled with the platino-cyanides may be mentioned. About twelve pages are devoted to the compounds of platinum and cyanogen, and the knowledge summarised of the differences in platinocyanides which determine fluorescence under ultra-violet stimulus.

War Against Tropical Disease: Being Seven Sanitary Sermons addressed to all interested in Tropical Hygiene and Administration. By Andrew Balfour, C.B., C.M.G., M.D., Director-in-Chief, Wellcome Bureau of Scientific Research. 9½ x 6½ in. Pp. 219. 12s. 6d. (London: Baillière, Tindall & Cox, 8 Henrietta Street, Covent Garden, W.C.)

It will be remembered that Mr. Henry S. Wellcome, in 1913, founded the Wellcome Bureau of Scientific Research, to advance the cause of science in various directions. The Bureau also supplies information to medical men, sanitary administrators, and others interested in tropical medicine and hygiene. During the war the resources of the Bureau were placed at the disposal of the War Office, and much useful work was accomplished by the scientific staff in tropical and sub-tropical areas. Dr. Andrew Balfour, the Director-in-Chief, is well known on account of his work at the Wellcome Tropical Research Laboratories and, since 1913, at the Bureau. The titles of the "seven sanitary sermons" are: (1) "Some Aspects of Tropical Sanitation," dealing with the subject from the point of view of the sanitary inspector, founded on experience gained in the Sudan; (2) "Tropical Problems in the New World," an account of the author's experiences in the West Indies and Tropical America when studying prevalent diseases and their antidotes; (3) "Preventive Inoculation against Typhoid and Cholera," in which the results achieved by inoculation in the Great War are compared with the losses sustained in the Boer campaign; (4) "The Medical Entomology of Salonica," dealing with the winged and wingless pests of the district; (5) "Sanitary and Insanitary Makeshifts in the Eastern War Areas," including sewage collection, water purification, disinfection, and fly- destruction; (6) "The Problem of Hygiene in Egypt," enumerating the methods of solving the problem of hygiene; (7) "The Palm from a Sanitary Standpoint," a discussion of the hygienic relations of the palm to man in various parts of the world. The book is well produced and contains a large number of illustrations.

Personalities.

A CERTIFICATE OF NATURALISATION has been granted to M. N. Becker (known as Max Becker) (Russian), 45 Oxford Road, Ealing, Middlesex, chemist's assistant.

MR. EDWARD CREED, B.A., M.B., B.Ch., has been appointed bacteriologist at King's College Hospital, London, S.E. 5, in succession to Dr. L. M. Moody.

SIR J. MACALISTER, secretary of the Royal Society of Medicine, was, on July 7, presented with a cheque for 711*l.* in recognition of his services to the medical profession.

DR. THOMAS MARTIN LOWRY, professor of chemistry in the University of London, was on July 8 elected to the professorship of physical chemistry at Cambridge University.

AT a recent shopping carnival week held at Haverfordwest, Mr. B. Pugh Davies, chemist and druggist, High Street, was awarded the first prize for the most original window-display.

THE directors of Brunner, Mond & Co., Ltd., Northwich, were presented with an illuminated address on July 10 by their employés, and the chairman, Mr. Roscoe Brunner, with a silver salver.

W. BRO. C. H. DAVIS installed his successor in the chair of the Wood Green Lodge, No. 2426, on July 13, and was appointed I.P.M. Mr. Davis is known to many pharmacists as a representative of J. & E. Atkinson, Ltd.

SIR THOMAS OLIVER, M.D., presided on July 9 at the annual meeting of the North-Eastern Sanitary Inspection Association, held at Newcastle-on-Tyne. Sir Thomas, who is well known to pharmacists by his experiments in the electrolytic treatment of lead-poisoning, pointed out that during the thirty-seven years of its existence the Association has spent about 1,000,000*l.* on work which to some extent anticipates that of the Ministry of Health.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, See "The Chemist and Druggist Diary" 1920, p. 308.

(From "The Trade-marks Journal," April 28, 1920.)

"KEGO," forming device on circle ("Kego" disclaimed); for aperient and health salts (3). By R. Kego, 18 Stirring Drive, Burnside, Rutherglen, Glasgow. 400,604.

"PALM TREE" under picture of same; for soap (47). By Lever Bros., Ltd., Port Sunlight, Cheshire. 401,113. (Associated.)

"INCANA BRAND POMADE"; for a pomade (48). By J. E. Fawcett and H. Bower-Meale, 6 Manor Park Parade, High Road, Lee, S.E. 13. 399,581.

"ARE-VIVA"; for hair lotions (48). By P. H. Synge, 149a Junction Road, London, N. 19. 399,807.

"VELDOR"; for perfumery, etc. (48). By S. Bloor, 17 Thomas Street, Shudehill, Manchester. 400,150.

"HYGEX"; for goods (48). By the Ellison Co., 14a Atlantic Road, Brixton, London, S.W. 9. 400,526. (Associated.)

"STAR" under device of star; for hair cream (48). By S. Webb, 44 Boldmere Road, Wyldes Green, near Birmingham. 400,673.

"ARUNA"; for all goods (48). By Mackay & Son, 32 Forster Square, Bradford. 400,758.

"CLARION"; for perfumery, etc. (48). By C. H. Parsons & Brother, Ltd., Ashby-de-la-Zouch, Leicestershire. 400,835.

"CILCREMA"; for all goods (48). By the Gum Tragafol Supply Co., Ltd., Hooton, Cheshire. 400,882.

"KOYEN"; for all goods (48). By B. C. Perkins, 5 Great James Street, Bedford Row, London, W.C. 1. 401,002.

(From "The Trade-marks Journal," May 5, 1920.)

"SPLENDOL"; for photographic developers (1). By Cutler Hill Colour and Chemical Co., Ashton Road East, Failsworth, Manchester. 389,351.

"REDMANOL"; for chemicals (1). By Redmanol Chemical Products Co., 636 West Twenty-Second Street, Chicago, U.S.A. 398,119. (Associated.)

"ROXANA"; for chemicals (1) and for goods (50). By H. G. Stuart & Sons, 117 Leith Walk, Leith, Scotland. 401,574/220.

"BERGAPAN"; for chemicals (1). By L. Berger & Sons, Ltd., 201 Morning Lane, Homerton, London, E. 9. 401,685.

"CINCAINE BRAND ANAESTHETIC"; for local anaesthetics (3). By Howards & Sons, Ltd., Uphall Road, Ilford, E. 9. 399,441.

"STIMON BRAND MEDICATED BEVERAGE"; for a medicated beverage (3). By G. H. France, Charnley House, Albert Road, Hyde, Cheshire. 399,666.

"CITRAFORM BRAND INHALANTS"; for inhalants (3). By B. R. Wilkinson, 23 Cromwell Place, South Kensington, S.W. 7. 399,687.

"NIGA BRAND THROAT PASTILLES"; for medicinal chemicals (3). By John Richardson & Co. (Leicester), Ltd., 10 Friar Lane, Leicester. 400,201.

"DELAUX BRAND AN APERIENT MEDICINE"; for medicinal chemicals (3). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 400,614.

"SEPTICUR GREEN'S SALVE" and device ("Green's" and "Septicur" disclaimed); for medicinal chemicals (3). By Agnes M. Gore Green, Swiss Cottage, Mousehill, Milford, Surrey. 400,697.

"RAJEUNA"; for all goods (48). By Annie Homer, 7 Stafford Street, London, W. 1. 400,542.

"TORINÉ"; for all goods (48). By Toro Tablet Co., Ltd., 95 Station Street, Birmingham. 400,570.

"SOLEX"; for toilet preparations (48). By W. L. Nundy, 35 Bath Street, Leamington. 401,104.

"EDAMOP"; for toilet preparations (48). By W. R. Cordon, 173 Within's Lane, Wallasey, Cheshire. 401,303.

"REVE DE JEUNESSE"; for perfumery, etc. (48). By J. Grossmith & Son, Ltd., 29 Newgate Street, London, E.C. 1. 401,450.

"NESKA"; for perfumery, etc. (48). By Lepers & Biron Co., Ltd., 122 and 123 Moorgate Station Chambers, Moorfields, London, E.C. 2. 401,540.

(From "The Trade-marks Journal," May 12, 1920.)

"MONOLITE"; for all goods (1 and 4). By British Dyestuffs Corporation, Ltd., King's House, Kingsway, London, W.C. 2. 397,953/4. (Associated.)

"BOROVITE"; for all goods (1). By the Liverpool Borax Co., Ltd., Borax Street, Liverpool. 401,285. (Associated.)

"VAPULIN"; for chemicals (2). By Chapman & Son (Grimsby), Ltd., 235 Cleethorpe Road, Grimsby. 401,071.

"HOO-BAN"; for chemicals (2). By W. J. Nolan, 43 Main Street, Dungarvan, co. Waterford. 401,345.

"PYROFORM"; for disinfectants (2). By C. A. Langham, 1 King's Court, Hove. 401,389.

"KLORON"; for disinfectants (2). By The British Drug Houses, Ltd., 22-30 Graham Street, City Road, London, N. 1. 401,602.

"ENO"; for a medicinal saline (3). By J. C. Eno, Ltd., 25 Pomeroy Street, New Cross Road, S.E. 14. 393,819. (Associated.)

"CAZAMA"; for all goods (3 and 48). "DOUCLEIRA"; for all goods (48). By Annie Homer, 7 Stafford Street, London, W. 1. 400,119/120. (Associated.) 400,302.

"PANMATTO"; for all goods (3). By A. B. Cruickshank, 143 Southcote Road, Bournemouth. 396,934.

"FAMO BRAND MEDICINAL PREPARATIONS"; for hair and scalp preparations (3). By F. A. Thompson & Co., 502 Tremont Avenue, Detroit, U.S.A. 398,611.

"BISHOP'S NATURAL FRUIT SALINE" on oblong device of fruit; for a medicated saline (3). By A. Bishop, Ltd., 48 Spelman Street, London, E. 1. 399,546. (Associated.)

"EXAKO BRAND A REMEDY FOR TOOTHACHE AND NEURALGIA"; for a toothache and neuralgia remedy (3). By A. Phillips, 26 Hindpool Road, Barrow-in-Furness. 400,011.

"GREAT BEAR" over device of stars; for medicinal chemicals (3) and for goods (42). By Linton, Hubbard & Andrew, 72-75 Fenchurch Street, London, E.C. 3. 400,184/5. (Associated.)

"KINGWOOD PILLS" across picture of tree ("Kingwood" disclaimed); for pills (3). By C. A. Pratt, 1 West Ham Lane, Stratford, E. 15. 400,504.

"HEMATOGENES BRET, PRODUITS" AND SIGNATURE ("Hematogenes Bret" disclaimed); for haematojen preparations (3). By A. Bret, 56 Rue Jacquemart, Romans (Drôme), France. 400,777.

"IVELIA BRAND AN OINTMENT"; for ointment (3). By Amy Field, 437 High Road, Leyton, E. 10. 400,852.

"KERCHETTES"; for medicated paper handkerchiefs (3). By A. J. White, Ltd., 35 and 37 Farringdon Road, E.C. 1. 400,895. (Associated.)

"EMULOX" and "ZOGOCIL"; for medicinal chemicals (3). By Valley Perfumeries, Ltd., 19/25 Glen View Road, Hammerfield, Hemel Hempstead, Hertfordshire. 401,213/4.

"LEMOLAC BRAND A MEDICINAL PREPARATION," "AGOTAN BRAND A MEDICINAL PREPARATION"; for medicines (3). By Howards & Sons, Ltd., Uphall Road, Ilford, E. 401,230/393. (Associated.)

"ALUCOL BRAND COLLOIDAL PREPARATION," "SELENOCOL BRAND COLLOIDAL PREPARATION," "ARGENTOCOL BRAND COLLOIDAL PREPARATION"; for medicinal chemicals (3). By A. Wander, Ltd., 45 Cowerross Street, London, E.C. 1. 401,606/604/607.

"GLOIRE GAULOISE"; for perfumery, etc. (48). By Areco, Ltd., 11 Southampton Row, London, W.C. 1. 397,914.

"SCALPEOL"; for perfumery, etc. (48). By Constance M. Palmer, 13 Lisson House, Lisson Street, London, N.W. 1. 399,715.

"ADIANTINE"; for perfumery, etc. (48). By Potter & Clarke, Ltd., 60-64 Artillery Lane, London, E. 1. 400,808.

"BÉATRICE"; for toilet cream (48). By J. B. Salarnier, Grande rue du vieux Crépieux 22, Crépieux-Rillieux (Ain), France. 400,866.

"AB-DARI"; for perfumery, etc. (48). By W. Rowley-Redwood, the Accounting Offices, Castle Street, Conway, Carnarvonshire. 401,681.

"MAGICAL" under picture of astrologer; for perfumery, etc. (48). By W. Gossage & Sons, Ltd., Widnes, Lancs. 401,906. (Associated.)

(From "The Trade-marks Journal," May 19, 1920.)

"MARCA ONCA" under picture of leopard on tree; for chemicals (1). By Gale & Friend, Ltd., Dunedin House, Basinghall Avenue, London, E.C. 2. 400,311.

"SOZOL"; for chemicals (1). By Lanoline Extractors, Ltd., 62 London Wall, London, E.C. 2. 401,097.

"FLEXOLAC"; for chemicals (1). By Industrial Engineering, Ltd., Oaklands Road, Cricklewood, London, N.W. 2. 401,638.

"CHEMAG"; for all goods (1). "GLAMAT"; for chemicals for use in frosting glass, etc. (1). By Ida Brook, 27 Fairfax Road, Bedford Park, London, W. 4. 402,029/30.

"ARCADIAN LAWN" ("Lawn" disclaimed); for chemicals (2). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 401,471.

"ASQUITH"; for veterinary chemicals (2). By W. G. Asquith, The Eyrie, Burges Road, Thorpe Bay, Essex. 402,147.

"NIDAL"; for all goods (3). By J. A. Bingham, 43 Donegall Place, Belfast. 400,502.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, July 15.

VERY little business is passing, and many dealers and merchants have taken advantage of the present quiet time between the drug sales to go on their holidays. Changes in value are in most cases downwards, but turpentine has improved, and shellac is dearer on the spot, the present small stocks pointing to higher values before long. Fenugreek-seed is higher, and chamomiles are scarce and dearer pending the arrival of the new crop. A few landings of bright chillies are offered at high prices, and reports of adverse weather may affect Morocco seeds generally. Pimento is lower. Ergot, prompt shipment from Spain, has suffered a heavy fall in value. Sugar for manufacturing purposes has been reduced along with licensed free sugar. There is again a large number of articles which have declined in value, including aspirin, benzoates, cocaine hydrochloride for forward shipment, potash bromide, caffeine, etc.

Higher	Firmer	Easier	Lower
Chamomiles	Coriander-seed	Aspirin	Anise oil, star
Chillies	Dill-seed	Benzoates	Aubepine
Fenugreek-seed	Farina	Camphor (ref.)	Bromstyrol
Turpentine		Cassia oil	Caffeine
		Citric acid	Calcium lactate
		Cloves	Citronella oils
		Cocaine	Lactic acid
		hydrochloric	Linseed oil
		Cod-liver oil	Phenacetin
		Cream of tartar	Rhodinol
		Creosote	Rosemary oil
		carbonate	Salicylic acid
		Heliotropin	Sugar (manuf.)
		Juniper-berry oil	Sulphonated
		Lemon oil	Vanillin
		Methyl salicylate	Wax, Carnauba
		Mint oil (J.p.)	
		Palmarosa oil	
		Phenol-phthalein	
		Phenyl ethyl alcohol	
		Pimento	
		Potash bromide	
		Resorcin	

AGAR-AGAR is firm at 2s. 7d. per lb. on the spot for No. 1 Kobe strips, and No. 2 Yokohama at 2s. 5d.

ALUM.—Makers are quoting 24s. per cwt. for lump.

ANISE is meeting with little demand. Russian is steady at 88s. per cwt., but a fair quality Spanish can be had at 87s.

ANTIMONY.—The few parcels awaiting disposal attract practically no attention, the price being quite nominal at about 42s. Efforts have been made to put up terms for foreign regulus in view of the inflated figure maintained for English refined at 60s. to 62s., but the demand is still weak. There are sellers of the latter for shipment at 47s., and even less.

ARSENIC.—The supply of best white Cornish is limited, and the market is firm at 74s. to 75s. delivered London. The output is believed to be appreciably curtailed, and there is talk of even higher prices in the near future. Imports from Australia and Greece are small.

ASPIRIN, B.P., is easier at 5s. 3d. to 5s. 6d. per lb., according to quantity.

BENZOATES are easier, benzoic acid, ex toluol, being quoted about 4s. to 4s. 6d. per lb., according to quantity. The soda salt is quoted at 3s. 9d. per lb. in cwt. lots up to 4s. 3d. for smaller quantities.

BROMIDES.—The potash salt continues to show considerable irregularity, and the price is said to be very much cut. Spot can be done about 2s. 9d. per lb. Soda is fairly steady at 3s. 3d. and ammonia is unchanged at 3s. 9d.

CAFFEINE.—Pure crystals are lower, importers offering at 45s. 6d. per lb. for spot.

CALCIUM LACTATE is again lower, importers quoting for spot 5s. 9d. to 6s. 3d. per lb., according to quantity.

CAMPHOR (REFINED).—Japanese 2½-lb. slabs have sold on the spot at 6s. 6d. per lb. and 6s. c.i.f. for August-October shipment.

CARAWAY-SEED is steady at 40s. per cwt. for fair Dutch on the spot, and holders of Morocco are asking 25s., at which a small business has been done.

CASCARA SAGRADA.—Offers about 96s. per cwt. are being invited for 5-ton lots of two-year-old bark.

CASSIA LIGNEA is quiet and unchanged at 65s. per cwt. for whole selected on spot, and broken at 55s.

CHAMOMILES.—Good white flowers are scarce and dearer at 150s. per cwt. Slightly off colour can still be had at 130s.

CHILLIES.—Thirty bags of nice bright clean Nyassaland variety have been limited at 150s., and a small parcel of Japanese are available at the same price.

CINCHONA.—Further particulars of the auction to be held at Amsterdam on July 21 show that the 2,293 packages (1,783 bales and 510 cases) pharmaceutical bark weigh 124,032 kilos. and contain the equivalent of 3,311 kilos. of quinine.

CITRIC ACID has been sold at 5s. to 5s. 2d. per lb., according to quantity.

CLOVES are easier, with spot sellers of Zanzibar at 1s. 4d. to 1s. 5d. per lb., according to quantity.

COBALT-OXIDE.—The market is steady at prices ranging from about 10s. for black up to 11s. 6d. per lb. for grey oxide.

COCA-LEAVES.—Further particulars of the auction to be held at Amsterdam on July 21 show that the 6,538 packages (5,438 bales and 1,100 cases) of Java coca weigh 356,439 kilos., with an alkaloidal content totalling 4,900 kilos. The average percentage is 1.38.

COCAINE.—The forward position of hydrochloride is again easier, and offers for July-August shipment, to arrive, at 35s. to 36s. per oz., would probably be entertained.

COD-LIVER OIL.—Our Bergen correspondent, writing on July 7, states that the exports of cod-liver oil from Norway for the week ended June 26 amounted to 18,300 barrels. The final report from all the cod fisheries (including that of Fimmarken) gives the total output as under :

	1917	1918	1919	1920
Catch of cod (millions)	... 27.7	24.4	30.2	38.8
Yield of o.l.o. (hect.)	... 37,129	21,492	37,612	58,951
„ Liver for „ raw „ oils (hect.)	6,824	9,856	5,239	6,206

In London, agents quote finest medicinal Lofoten oil at 300s. per barrel, and lower forward prices would be entertained.

CORIANDER-SEED is quiet but firmer at 13s. per cwt. for slightly wormy Morocco and at 17s. to 20s. for dark to good bright sound.

CREAM OF TARTAR is slightly easier on spot at 28s. per cwt. to 29s. for 99 to 100 per cent. powder, less the usual discount.

CREOSOTE CARBONATE has declined about 2s. per lb. on spot, with sellers quoting 28s. per lb. or less, according to quantity.

CUMIN-SEED.—Some business has been done at 37s. 6d. per cwt. for ordinary Morocco and at 42s. for good sifted, being steady.

DILL-SEED is firmer at 16s. 6d. per cwt.

ERGOT.—Offers of sound, dry, clean quality, for prompt shipment from Spain, are made at 13s. 9d. per lb. c.i.f., being about 7s. per lb. lower than last quoted.

FARINA is slightly firmer; No. 1 Japanese is quoted at 27s. 6d. per cwt. For July-August shipment the price is unchanged at 27s. c.i.f.

FENUGREEK-SEED is dearer at 11s. per cwt. for fair Morocco.

FUSEL OIL is scarce on the spot and firm at 21s. per gal.

GINGER.—Japanese is unchanged on spot at 60s. per cwt. and Sierra Leone at 70s.

LACTIC ACID.—B.P. quality is cheaper at 8s. per lb., but there are sellers willing to accept less.

LEAD-PRODUCTS.—The market continues active, with a steady call against current contracts on home and foreign account. Manufacturers are still in arrears with their deliveries. The position of pig-lead is firmer. Imports have been lighter, and the higher prices established for the metal again this week may lead to another rise in all lead-products.

LINSEED OIL.—Prices have fluctuated considerably, while last week's renewed big slump caused the London spot price to reach a new low record for the present movement down to 71*l.* per ton, from which, however, the market has rallied again materially. Speculative operations chiefly govern the trend of values, while crushers find themselves in an awkward position owing to the want of a working margin. Prices have dropped considerably the last few weeks, but are still much too high to induce crushers to commit themselves to forward contract for oil. Imports of seed are fairly satisfactory, but the quantities afloat are not so large as they were some time back. The tendency is very uncertain, and consumers of oil are buying strictly from hand to mouth. Spot closing prices : 72*l.* London, 69*l.* 10s. Hull.

MENTHOL is easier, 10-case lots of Kobayashi-Suzuki being quoted at 27s. 6*d.* per lb. and Yazawa 25s.

OPIUM.—The London market remains steady at last week's quotations.

SMYRNA, June 26.—The sales this week on our market amount to 12 cases of manufacturing qualities at piasters 1,000 to piasters 1,070 per oke, as to quality, which is equivalent to to-day's exchange rates to 19s. 6*d.* to 20s. 10*d.* per lb. e.i.f. The exchange is piasters 400 per pound sterling for cheque. The arrivals are 1,740 cases (160 lb. to the case), against 695 cases at same date last year.

PEPPER is quiet, with spot sellers of black Singapore at 5*2*₁*d.* to 6*d.* per lb. To arrive, the sales include July-September, August-October, and September-November at 6*2*₁*d.* c.i.f. Lampung continues steady at 6*2*₁*d.* for spot, Tellicherry at 7*2*₁*d.*, and Aleppy at 6*2*₁*d.* White pepper is unchanged for Muntok on spot at 11*1*_{2*d.*; November-December shipment is quoted at 10*7*₁*d.* c.i.f.; Singapore is 11*d.* on spot, and August-September shipment 10*3*₁*d.* c.i.f.}

PHENACETIN is lower on spot, with sellers quoting 15s. 6*d.* to 16s. per lb. The position is easier owing to fair arrivals having recently taken place.

PHENOLPHTHALEIN is rather cheaper, importers offering at 10s. to 10s. 6*d.* per lb., and even these prices could be shaded for quantities.

PIMENTO is dull and easier at 4*d.* per lb. for spot.

QUICKSILVER.—The demand has not been particularly active, but the supplies available are comparatively light, while the imports for last month were moderate at about 1,400 bottles. The total for the six months, however, represents 21,359 bottles, which compares with 17,508 bottles for the same period last year. The market has hardened steadily, with quotations ranging from 20*7*₁*d.* 10*s.* to 21*d.* per bottle. The Far Eastern demand is almost negligible, but home consumers have been buying fair quantities. Reserve stocks in the hands of the chief importers of Spanish are believed to be light, and their attitude is firm at the top figure given.

QUININE is unchanged on spot, with second-hand sulphate offered at 4s. 6*d.* per oz. on spot. A New York cable advice states that the second-hand quotation is 80c., as against the manufacturers' price of 90c.

RESORCIN is easier, importers offering at 25s. per lb. on spot for B.P. quality.

SALICYLIC ACID is lower, with spot offers about 3s. per lb. for B.P.

SHELLAC.—Fair TN is dearer at 690s. per cwt. spot, August-October shipment is quoted at 695s. per cwt., and much higher prices are predicted shortly.

SILVER SALTS.—For nitrate the prices quoted on July 14, based on a metal price of 53*2*₁*d.*, are as follows : In quantities of 50 oz., 3s. 3*2*₁*d.*; 100 oz., 3s. 3*1*₂*d.*; 250 oz.,

3s. 1*3*₁*d.*; 500 oz., 3s. 1*1*₂*d.* Nucleinate is quoted at 40s. per lb. and proteinate at 20s. on spot.

SODA HYPOSULPHITE in pea crystals continues scarce and firm at from 40s. to 42s. per cwt. in ton lots.

SUGAR.—Licensed free sugar has been reduced to 145s. per cwt. for wholesale to retail at 1s. 6*d.* per lb. Manufacturing and ships' stores supplies have been altered to the following rates, grocery supplies being unchanged (C. & D., May 22, p. 95).

Manufacturing and Ships' Stores	Wholesale per ewt. Discount 1 <i>3</i> ₁ <i>%</i> to direct buyers
Castor, icing, pulverised	151 [166]
Cubes, loaf sugar	149 [164]
Granulated crystals, crushed and chips, dry white sugar, W.I. grocery crystallised yellow crys- tals, white pieces (moist)	145 [160]
W.I. Muscovado (moist), raw brown cane crystals, pieces other than white, W.I. grocery syrups ...	100 [110]

The maximum "reasonable" price for all licensed "free" sugar from July 12 to August 7 has been fixed at 145s. [160s.] per cwt. wholesale, less 1*1*₂ per cent., and the retail price per lb. for domestic preserving only at 1s. 6*d.* [1s. 7*2*₁*d.*].

Syrup and molasses will be sold by refiners at prices approved by the Commission. Vouchers for period 8, starting July 12, and until further notice, should be fulfilled at the following rates: White, blue-green, and yellow, 100 per cent. of face value; blue, 300 per cent.; brown (wholesale jam manufacturers), 400 per cent.; salmon (small jam manufacturers), 100 per cent.; pink (mineral-water manufacturers), 400 per cent.

The wholesale prices quoted are those at which sugar will be supplied to "direct" purchasers by the Commission or by refiners. All wholesale dealers through whose hands sugar passes are entitled to a profit of 1*1*₂ per cent. on the net cost, together with the actual cost of carriage. In addition certain other charges are allowed for handling and storing and for breaking bulk where the quantity to be delivered is less than that contained in an original package. In the above table we give in brackets the previous price of the sugar, from which it will be seen that for Muscovado (moist) and similar grades there is a decline for manufacturers from 110s. to 100s. per cwt. The consumption in the United Kingdom for June was 103,000 tons, against 141,900 tons in June 1919.

SULPHONAL is about 1s. per lb. lower, importers offering at 46s. per lb. in 7-lb. parcels.

TAMARINDS.—Barbadoes, in bond, are quoted at 56s. per cwt. and Antiguas 50s.

TARTARIC ACID is unchanged at 3s. 6*d.* to 3s. 7*d.* per lb., according to quantity.

TURPENTINE.—The market has been strong, as a result of urgent trade inquiries, while reserve stocks are tightly held. Imports from the States have been short, and it is possible that the crop movement has been temporarily delayed. The market is very sensitive, with cable advices from the other side showing renewed firmness. Closing spot quotation on Wednesday for American was 184s. per cwt.

VANILLIN is quiet and easier at 70s. per lb. on spot.

WAX, PARAFFIN, is firm, with quotations for spot given variously at from 7*2*₁*d.* to 11*1*₂*d.* per lb., according to melting-point.

WAX, VEGETABLE.—Carnauba is lower on spot, with sellers of fatty grey at 240s. per cwt. Japanese is slightly firmer, with spot sellers at 107s. 6*d.* to 110s. per cwt.

Essential Oils Market.

From all accounts buyers of any quantity are still difficult to find, but small business is reported to be all the while passing. Dealers in consequence conclude that the stocks in consumers' hands are very low, and that business is delayed until the buyers are agreed that bottom prices have been reached. Anise, star, oil was said to have improved slightly in the beginning of the week for forward shipment, but the movement was evidently temporary. The spot price has also declined. Citronella and rosemary oils are lower.

CASSIA, juniper-berry, Japanese mint, lemon, and palmarosa are easier. Sicilian orange is practically unchanged, and West Indian is scarce on spot. Prices for synthetic products may almost be described as nominal, for there is very little business passing, and consumers could in many cases buy under what is stated to be the market price. Aubepine, bromstyrol, rhodinol, and vanillin are lower. Methyl salicylate and heliotropin have also declined in value.

ANISE, STAR, is lower at 3s. 10*1/2*d. per lb., but further business is reported at 3s. 6d. to 3s. 8d. c.i.f.

BAY continues steady in the neighbourhood of 30s. per lb. for spot.

BERGAMOT is steady, with spot sellers at 36s. to 37s. per lb. for 37-38 i.a. To arrive is quoted about 37s. c.i.f.

CAMPHOR.—Japanese essential remains quiet, with *brown* offered at 145s. to 150s. per cwt. in cases and 160s. to 165s. repacked in drums. *White* is unchanged at 180s. in cases, with a corresponding increase for drums. The exports from Japan during April amounted to 257,365 kin, valued at 133,576 yen. During the four months ended April 30 they were as follows:

	1918	1919	1920
Kin	232,369	194,803	1,024,840
Yen	41,460	50,341	477,007

CASSIA is easier on the spot, with sellers of 80 to 85 c.a. at 8s. per lb. Business in 10-case lots is reported at 7s. 6d.

CITRONELLA.—Ceylon is lower on spot, holders offering about 3s. 3d. to 3s. 6d. per lb. Java is also weaker at 5s. 3d. to 5s. 6d. per lb. The total exports of Ceylon citronella for the week ended June 7 amounted to 5,255 lb.

CLOVE.—English distillers appear to be full up with orders, in some cases for three months, and stocks have been cleared at 15s. per lb. For forward delivery 15s. 6d. has been mentioned.

GERANIUM.—Bourbon remains steady on spot at 40s. to 41s. 6d. per lb., with forward quoted about 40s.

GINGERGRASS.—“Insoluble” is quoted variously at 20s. 6d. to 21s. per lb. There still appears to be nothing offered at the source.

JUNIPER-BERRY.—B.P. is lower on spot at 16s. to 17s. per lb. **LEMON** is slow and irregularly quoted, with strong holders giving 7s. 6d. per lb. as their lowest spot price, although there are others willing to sell at 6s. 6d. and upwards, according to quantity. Stocks at the source, however, are reported to be much lower than usual, and firmer quotations have been coming forward, from 7s. to 8s. c.i.f. being mentioned. A Palermo report, dated July 8, states: During the last two weeks the position has been uncertain. The lowest prices have only been realised from weak holders, but as the available supply is mostly in strong hands and speculative interests are active, much manoeuvring has taken place to keep the market on a higher basis. As demand has been quiet most of these movements, however, have been artificial. The present position is that buyers would have to pay more than the nominal market value.

LEMONGRASS is unchanged at 1s. per oz., with offers forward at 8d. c.i.f.

LINALOE is quoted at 35s. to 40s. per lb. c.i.f. for good quality Mexican wood.

MINT.—Japanese dementhrolised is dull and slightly easier, with spot sellers of Kobayashi-Suzuki at 8s. 9d. per lb., and Yazawa at 8s. 3d. The exports from Japan during April amounted to 44,655 kin, valued at 352,632 yen. During the four months ended April 30 they were as follows:

	1918	1919	1920
Kin	42,590	105,211	85,624
Yen	87,159	282,406	644,066

ORANGE.—Sweet Calabrian is firm on spot at about 45s. per lb., with c.i.f. London quotations around 40s. per lb. The stock of West Indian is practically exhausted, and nominally around 40s. per lb. is the price given.

OTTO OF ROSE.—A recent report from Sofia states that the Bulgarian crop, which has been almost completed, will cost at the source the equivalent, in round figures, of 70s. per oz. Although present stocks are reported to be ample to meet requirements for some time, it is stated that a gradual hardening of prices has been observed during the past few months, and while spot lots were recently offered at 40s. per oz., the lowest quotations now mentioned appear to be in the neighbourhood of 50s., and, as previously reported, up to 62s. 6d. is asked for prime qualities. Anatolian remains nominal at 45s.

PALMAROSA is easier at 25s. per lb. for original pots.

PEPPERMINT.—H.G.H. is quoted at 65s. per lb., usual market terms, and “Wayne County” at 42s. 6d.

PETITGRAIN.—Paraguayan has been selling at 30s. per lb., but this has been shaded at 28s. per lb.

ROSEMARY.—Spanish is lower on spot at about 6s. 3d. per lb.

VETIVER is quoted at 50s. per lb. on spot for Bourbon and 65s. to 70s. for Java.

Aromatic and Synthetic Chemicals.

AUBEPINE is lower, with offers at 35s. to 40s. per lb. on spot and afloat. **BROMSTYROL** is also lower at 30s. to 35s. per lb., according to seller. **COUMARIN** is nominally unchanged at 33s. to 35s. per lb. on spot, with some holders willing to take less. **HELIOTROPIN** is easier at 27s. 6d. to 29s. per lb. **IONONES** are in better supply, with spot sellers of 100-per-cent. at 82s. 6d. per lb. upwards, and **IONONE** is quoted at 115s. spot. **LINALYL ACETATE** is quoted at 55s. per lb. **METHYL SALICYLATE** is lower at 4s. 6d. per lb. in 1-cwt. drums, packings extra, with higher prices for less. **PHENYL ETHYL ALCOHOL** can be bought at 65s. per lb. upwards. **RHODINOL** is lower at from 70s. to 89s. per lb., according to quality.

The following are included in recent arrivals: **Amyl salicylate** (Fr.), 165*l.*; **aubepine** (Holl.), 13*l.* (Fr.), 325*l.*; **bromstyrol** (Holl.), 179*l.*; **citral** (Holl.), 89*l.*; **coumarin** (Germ.), 60*l.*; **geraniol** (U.S.), 160*l.*; **iso-eugenol** (Holl.), 35*l.*; **methyl anthranilate** (Holl.), 170*l.*; **methyl salicylate** (U.S.), 400*l.*; **musk xylol** (Holl.), 97*l.*; **terpineol** (Belg.), 1,375*l.* (Fr.), 91*l.*

French Flower Crops.

A Report from the South of France states that for *Neroli* oil 9,000fr. a kilo. was paid last week, and it is said that 10,000fr. will be asked; 10fr. has been paid for flowers. The same applies to rose flowers. **Jessamine**: This year's crop is beginning rather early; the work (*enfleurage des pommades*) will take place during the week commencing July 19 instead of in the beginning of August. The prospect is a splendid one, thanks to the dry and hot weather which has prevailed since May. Last year the price of the flowers was pushed up to 7,500fr. a kilo., but recently, after a meeting of the Syndicate of Harvesters and some members of the Syndicate of Perfumers, one leading firm agreed to pay for jessamine flowers 25fr. a kilo. This agreement, increasing by ten times the pre-war price, has been strongly criticised by the Chambre Syndicale de la Parfumerie Française de Paris, in which nearly all the French perfume manufacturers are represented, and at a meeting a resolution was passed to bring the matter before the Courts on the grounds of illicit rise of raw materials. **Lavender**: The harvest this year is also an early one. At *Sault du Vaucluse* the spurs of the mountain called *Mont Ventoux*, the property of the State, have been rented at auction at 28,500fr. as against 5,500fr. last year. Flowers have reached the high price of 50fr. a hundred kilos, with additional costs of 50fr. asked by the cutters. The primary cost of oil will therefore probably come to 200fr. a kilo. for qualities with 35° esters; 220fr. will be the price for oils with 40° esters.

The Situation in Germany.

A German report states that the demand in export markets, to which most of the chemical works have devoted themselves since the end of the war, has recently experienced a falling off, which is all the more perceptible as the inland requirements have considerably declined. Some branches continue well occupied, particularly that for essential oils. The colour business, except that of the aniline works, which are maintaining their leading position in the world's markets, is less satisfactory. In cosmetic preparations the export trade has undergone a great diminution; not only are no new orders coming to hand, but efforts are being made to cancel existing orders. The trade in pharmaceutical products of proprietary brands is not unfavourable, but general articles are difficult to market, and the consumption of them has become greatly reduced.

Caucasian Sunflower Oil.

Sunflowers are extensively cultivated in the Kuban province in North Caucasus, and, according to the official statistics, 15,000,000 puds of sunflower-seeds were collected in 1915, and extracted in 600 oil mills. On the whole these oil mills are worked by the peasants themselves, and are quite small establishments. However, there is a movement on foot to improve and increase the production of this oil. In Yekaterinodar there are three large oil mills, with an annual production representing a value of 650,000 roubles, while there are other important oil mills in Rostov and in Armavir. In this connection it may be mentioned that prior to the war, in 1907, Germans began to erect oil mills in this district, importing the machinery from Germany, while some of the parts were made in Taganrog; the firm of Kerber & Co. was particularly prominent in this successful enterprise.

Arrivals of Drugs, Chemicals, etc.

The following products have arrived at the ports named:

London
(June 21 to 28).
Alcohol (Natal), 100 drms.
Amyl alcohol (Denn.), 8 drms.
Chemical products, etc.
(Germ.), 36 eks., 30 pkgs.,
(Belg.) 9 pkgs., 76 eks., (Fr.)
18 es.
Acetic acid, (U.S.) 1,624 brls.,
(Holl.) 10 eks.
Ammon. nit. (Norw.), 41 eks.
Antimony (Germ.), 51 es.
Antimony ore (Ch.), 1,000 es.
Antimony oxide (Havre), 19 eks.
Argol (Port.), 316 bgs.
Arsenic, (Port.) 21 brls.,
(U.S.) 179 brls., (Antw.)
8 brls.
Barytes, (Germ.) 407 eks.,
250 bgs.
Betanaphthol (N.Y.), 8 brls.
Bismuth ore (Aus.), 73 bgs.
Citric acid (Aus.), 100 kgs.
Formaldehyde (N.Y.), 505 brls.
Mercury (It.), 60 flasks.
Oxalic acid (Holl.), 43 eks.
Potash bicarb. (Denn.), 17 eks.
Potash permang. (N.Y.), 16 drms.
Potash prussiate (Amst.), 31 eks.
Quinine salts (Holl.), 37 es.
Soda nitrate (Fr.), 42 brls.
Drugs, crude, etc.: (Aus.),
175 es.; herbs, (It.) 28 pkgs.,
(N.Y.) 17 es.
Anise (Ch.), 75 es.
Benzoin (Straits), 101 es.
Camphor, (Ch.) 50 es., (N.Y.)
358 es., (Calif.) 19 es.
Cantharides (Ch.), 60 es.
Cardamoms (E.I.), 305 es.
204 pkgs.
Cinchona, (Cristobal) 100 bls.,
233 bds., (E.I.) 48 bls.,
63 pkgs., (Amst.) 11 es.
Coca-leaves (Amst.), 54 pkgs.
Cod-liver oil (Norw.), 20 brls.,
8 es.
Cubebes (S'pore), 4 pkgs.
Dragon's blood (Penang), 17 es.
Liquorice roots (E.I.), 8 bls.,
Nux vomica (E.I.), 313 bls.,
2,036 pkts.
Rhubarb (Ch.), 8 es.
Sarsaparilla, (S. Amer.) 13 bls., (W.I.) 19 bgs.
Senna (Tinn.), 6 bgs.
Tamarinds (W.I.) 1,113 brls.,
(E.I.) 435 eks.
Turmeric (E.I.), 564 bgs., 960 bls.
Witch hazel (Fr.) 30 brls.
Gums, resins, etc.: (E.I.),
1,469 bgs.; acacia, (E.I.) 17 bgs., (Suez) 500 bgs.; copal,
(Port.) 141 bgs., (Antw.)
549 bgs., (Fr.) 40 es.; damar
(S'pore), 523 es.; karaya
(E.I.), 134 bgs.; lac; button,
(E.I.), 50 es.; shell, (E.I.)
520 es., 308 pkgs., (Cey.) 124 es.; stick (S'pore), 4 pkgs.;
olibanum (Aden), 200 bgs.
Honey, (W.I.) 4 eks., (Holl.)
20 brls.
Isinglass (W.I.) 3 brls.
Lime juice (W.I.), 70 pps.
32 eks., 75 bhdhs.
Magnesite (E.I.), 500 tons, 2,471 bgs.
Oils, essential:
Anise star (Ch.), 100 es.
Citronella, (Cey.) 5 drms.,
(Jv.) 20 drms., (Holl.) 6 drms., (Cochin) 12 drms.
Eucalyptus (Ant.), 182 es.
Geranium (Fr.) 9 es., 17 pkgs.
Gingergrass (E.I.), 7 pots.
Jasmin (Fr.), 1 es.
Lavender, (Sp.) 6 drms., (Fr.) 4 drms.
Lemon (It.), 22 es., 1 pkg.
Lime (W.I.), 22 es., 3 ebys.
Neroli (It.), 1 pkg.
Orange (Italy), 6 es.
Palmarosa (E.I.), 3 pots.
Petitgrain (S. Amer.), 10 es.

Rosemary, (Sp.) 12 drms.,
(Fr.) 2 es.
Spike (Sp.), 2 es.
Thyme (Fr.), 9 es.
Turpentine, (Antw.) 75 brls.,
(Fr.) 110 eks., (U.S.) 100 brls.
Oils, fixed: Groundnut (Ch.),
1,000 es.; olive (It.), 50 eks.;
soya-bean (Jp.), 2,645 es.;
tea (Ch.), 2,500 es.
Seeds: annatto (E.I.), 14 bls.,
203 bgs.; canary (S. Amer.),
1,320 bgs.; copra (E. Af.),
8,967 bgs.; cotton (P. Colombia),
2,500 bgs.; lin (E.I.),
22,060 bgs.; rape (Cal.), 105 bgs.;
sunflower (Natal), 1,114 bgs.
Soy (Ch.), 100 eks., 5 kgs.
Spices: Cassia (W.I.), 45 bgs.,
11 es.; chillies (E.I.), 250 bls.,
120 pkgs.; cinnamon (Cey.),
250 bls.; cloves (Penang), 30 es.;
ginger (E.I.), 696 bls., 25 es., 45 bgs.;
pepper (E.I.), 811 bgs.;
pimento (W.I.), 50 bgs.
Wax, bees' (E.I.), 20 es.

Liverpool

(June 21 to 28.)

Chemical products, etc.:
Argol (It.), 109 eks.
Barytes, (Antw.) 1,200 bgs.,
(It.) 240 bgs., (Holl.) 110 eks.
Bismuth ore (S. Amer.), 61 bgs.,
30 es.
Calc. borate (Chile), 2,341 bgs.
Cream of tartar (Sp.), 99 brls.
Iodine (Chile), 324 brls., 48 kgs.
Oxalic acid (Sp.), 16 brls.
Pot. caustic (Holl.), 131 drms.
Pot. nit. (Antw.), 200 bgs.
Saltpetre (E.I.), 3,000 bgs.
Soda acet. (Fr.), 100 bgs.
Soda nit. (Chile), 27,981 bgs.
Soda thiosulph. (Fr.), 175 eks.
Sulphur (Sic.), 230 es.
Tartar (Sic.), 12 eks.
Drugs, crude, etc.:
Cascara (U.S.), 833 eks.
Cinchona (Areca), 121 bls.
Cod-liver oil (Norw.), 40 brls.
Ergot (Sp.), 3 bgs.
Galls (Ch.), 120 es.
Kola (W. Af.), 117 bgs.
Liquorice juice (Sic.), 10 eks.
Onnilla (Chile), 249 bls.
Turmeric (E.I.), 10 bgs.
Yohimbe-bark (W. Af.), 526 bgs.
Gums, resins, etc.: Copal
(Antw.), 1,391 bgs., 242 bskts.; gambier (Cal.), 193 bgs.
Isinglass (S. Amer.), 12 bgs.
Oils, essential: Citronella
(S'pore), 70 drms.; lemon
(Sic.), 4 es.; mustard (Cal.),
55 drms.; turpentine (U.S.),
28 drms., 3 brls.
Oils, fixed: Cotton (Ch.), 351 drms.; palm (W. Af.), 6,248 eks.
Seeds: Cotton, (S. Amer.) 2,795
bgs., 4,806 bgs., (W. Af.) 411
bgs., 523 bgs., (Alex.) 1,391
tons, (E.I.) 9,328 bgs.; fennel
(Moroc.) 303,876 kilos.;
groundnuts (W. Af.), 6,196
bgs.; palm (W. Af.), 37,094
bgs.; sesame (Ch.), 1,400
bgs.
Soy (Ch.), 200 es.
Waxes: Carnauba (Braz.), 13
bgs., 17 bds.; paraffin,
(N.Y.) 254 bgs., (E.I.) 134
bgs., (seale) (N.Y.) 2,111
brls.

Hull

(June 19 to 22.)

Barytes (Germ.) 164 eks.; cod-
liver oil (Sp.), 660 brls.;
potash, caustic (Holl.), 217
drms.

Manchester

(June 21 to 26.)

Herbs (Fr.), 40 bls.; liquorice
juice (Sic.), 20 es.; mag-
nesium chloride (Germ.), 72
es.; oxalic acid (Swe.), 5
brls.; phosphorus (Can.),
1,060 es.; pot. nitrate

(Antw.), 10 bgs.; pot. pruss.
(Fr.), 20 eks.; soda acet.
(Antw.), 120 eks.; soda
chlorate (Can.), 293 drms.;
sulphur (Sic.), 8,500 bgs.;
tannic acid (Can.), 67 brls.;
tartar (Fr.), 53 es.; wax,
paraffin (Antw.), 192 bgs.;
zinc oxide (Antw.), 88 brls.

London

(June 30 to July 5.)

Cascein (N.Z.) 401 bgs.
Chemical products, etc.: not
described (Germ.), 15 es.
Acetic acid (Holl.), 75 es.
Ammon. phosph. (Holl.), 113
eks.

Argol (Fr.), 418 bgs.
Arsenic (Jp.), 271 es.
Barytes, (Germ.) 376 eks.,
(Belg.) 35 bgs.
Boracic acid (It.), 74 pkgs.
Bromide: pot. (Germ.), 18 es.
Bromine (Fr.), 275 es.
Caffeine (Germ.), 14 es.
Calc. tart. (Fr.), 210 bgs.
Cinchonine (Amst.), 11 es.
Citric acid (Fr.), 210 brls.
Cream of tartar (Fr.), 18 eks.
Formalin (Swe.), 25 brls.
Glycerin (Aust.), 8 drms.
Hydroquinone (It.), 10 es.
Magnes. chlor. (Holl.), 200 brls.
Mercury (It.), 3 es.
Methyl salicyl. (N.Y.), 120 es.
Oxalic acid (Holl.), 20 drms.
Pot. chlorate (Belg.), 200 bgs.
Silver nitrate (Foll.), 3 es.
Soda nit. (Chili), 10,885 sks.
Tartar (It.), 6 eks.
Zinc oxide (Belg.) 140 brls.

Oils, drugs, crude, etc.: Leaves (Fr.),
209 bls.; flowers, 12 bls.;
roots (Fr.), 32 pkgs.; herbs
(Fr.), 158 bls.

Alkanet root (Germ.), 6 bls.
Aloes (Aden), 12 es.
Camphor (Ch.), 310 es.
Chaulmoogra oil (E.I.), 5 es.
Cod-liver oil, (Norw.) 130 brls.,
(Holl.) 100 es.
Dragon's blood (S'pore), 12 es.
Gentian root (Fr.), 115 bls.
Henbane (P. Said), 74 bls.
Insect powder, (Fr.) 20 eks.,
(Jp.) 20 es.
Juniper berries (It.), 167 bgs.
Liquorice root (Fr.), 81 bls.
Myrrh (Aden), 92 bgs.
Orange peel (Fr.), 28 pkgs.
Orris (It.), 160 pkgs.
Rose water (Fr.), 19 drms.
Senna (Aden), 9 pkgs.
Tamarinds (E.I.), 116 bds.
Gums, resins, etc.: (S'pore) 27
es., (Antw.) 1,000 bgs.,
(Suez) 488 bgs.; copal,
(Phillip., Is.) 208 bgs.,
(Antw.) 776 bgs., 63 bskts.,
(Holl.) 410 bskts., 63 bgs.;
lac; shell (E.I.), 250 es.

Oils, essential: Bay (W.I.), 1
es.; cananga (Holl.), 1 drm.;
caraway (Holl.), 1 es.;
citronella (Jv.), 1 drm.; lavender
(Fr.), 1 es.; lime (B.W.I.),
1 es.; orange (It.), 5 es.;
peppermint (N.Y.), 35 es.;
rosemary (Sp.), 1/4 drm.;
thyme (Fr.), 1 es.; turpentine
(Belg.) 200 brls., (Fr.)
380 eks., 1,650 brls.; vetivert
(Fr.), 1 es.

Oils, fixed: Castor (Fr.), 11
eks.; olive, (It.) 20 es., 150
eks., (Fr.) 248 es.; soya
(Jp.), 10,000 es.; wood (Fr.),
2,390 brls.

Soy: lin (E.I.), 9,550 bgs.
Soy (Jp.), 10 es.

Spices: Cloves (stems) (E. Af.),
300 bgs.; ginger (W. Af.),
5,000 bgs.; pepper (E.I.),
288 bgs.

Waxes: Bees' (W. Af.) 152 bgs.,
(Holl.) 29 bds., (W. Af.) 18
pkgs.; carnauba, (S. Amer.)
4,755 bgs., (N.Y.) 171 bgs.;
paraffin, (U.S.), 1,591 brls.,
(seale) 150 brls.

Calc. acet. (U.S.), 2,212 sks.
Calc. borate (S. Amer.), 2,526
bgs.

Calc. tart. (Fr.), 233 bgs.
Cream of tartar (Fr.), 176 eks.
Formaldehyde (U.S.), 112 brls.
Lactic acid (Holl.), 5 brls.
Potash muriate (Holl.), 145
bgs.

Salicylic acid, 67 brls.

Drugs, crude, etc.: Roots
(Parnahyba), 5 bls.; herbs
(Fr.) 158 bls.

Aloes (Curaçao), 120 es.

Balsams (Cartagena), 15 es.

Ipecacuanha (Monte Vid.), 61
bls.

Jaborandi (Braz.), 9 bls.

Orange peel (Fr.) 28 pkgs.

Gums, resins, etc.: Copal
(Antw.), 317 bskts., 292 sks.;
resin (S. Amer.), 8 brls.

Honey (S. Amer.), 11 brls.

Isinglass (S. Amer.), 15 bgs. 4
brls.

Oils, essential: Camphor (Jp.),
11 drms.; citronella (Holl.),
3 bgs., 39 drms.; eucalyptus
(Aust.), 250 es.; petitgrain
(Parag.), 10 es.; turpentine
(Fr.), 40 brls., 150 bks.

Oils, fixed: Olive (Sp.), 270
brls., 115 es., (Fr.) 46 es.;
palm (W. Af.), 12,547 eks.,
33 butts

Seeds: Canary, (Tky.) 148
bgs., (S. Amer.) 1,159 bgs.;
caraway (Holl.), 25 bls.;
castor, (Fr.) 7,558 bgs., (W.
Af.) 294 bgs., (S. Amer.) 144
bgs.; copra (E. Af.), 2,050
bgs.; cotton, (Alex.) 1,143
tons, (S. Amer.) 21,612 bgs.,
(E. Af.) 1,412 bgs.; ground-
nuts, (W. Af.), 13,107 bgs.;
palm-kernels (W. Af.), 157,993
bgs.; sesame (W. Af.), 1,927
bgs.

Soy (Ch.), 100 eks.

Spices: Cloves (stems) (E. Af.),
300 bgs.; ginger (W. Af.),
5,000 bgs.; pepper (E.I.),
288 bgs.

Waxes: Bees' (W. Af.) 152 bgs.,
(Holl.) 29 bds., (W. Af.) 18
pkgs.; carnauba, (S. Amer.)
4,755 bgs., (N.Y.) 171 bgs.;
paraffin, (U.S.), 1,591 brls.,
(seale) 150 brls.

Manchester

(June 12 to July 1.)

Acetic acid (U.S.), 133 brls.;
alum sulph. (U.S.), 560 bgs.;
barytes (Hamb.), 35 eks.;
gum (Tky.), 47 bgs.; scam-
mony (Beyroot), 32 bgs.;
vaseline (U.S.), 114 es.; wax,
paraffin (U.S.), 320 bgs.

Hull

(June 12 to July 1.)

Acacia (P. Sudan), 578 bgs.;
acetic acid (N.Y.), 605 bgs.;
barytes (Holl.), 43 eks.;
cod-liver oil (Norw.), 151
brls.; laurine (Aust.), 2
eks.; lead, sugar of (Holl.),
74 eks.; oxalic acid (Swe.),
8 eks.; seeds: castor (Fr.),
11,348 bgs.; cotton (E.I.),
85,143 bgs.; ground-nuts
(Belg.), 1,292 bgs.; lin (E.I.),
13,332 bgs.; rape (R. I.), 33,755
bgs.; rape (R. I.), 1,942
bgs.; soda nitrate (Fr.), 52
eks.; turpentine (Swe.), 25
eks.

Liverpool

(June 12 to July 3.)

Chemical products, etc.:
Arsenic acid (Belg.), 13 brls.
Barytes (Germ.), 200 eks.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

The Commerce of Cinchona and Quinine.

SIR.—. . . Let me thank your Correspondent for instructing me in the meaning of the verb "toy" when used in connection with the cultivation of vegetables in Ceylon (in the case of cinchona the "toying" brought down the unit, in 1884, from 2s. to 8d., and ruined a good many large concerns); let me say also that I understand, without effort, the difference between Java and Ceylon bark crops of equal weight; I was, in fact, careful to emphasise the higher quinine value in the case of Java, but, having overlooked this part of my letter, your correspondent is pained by my ignorance. As to Mr. Abrahamson, I have not the least ambition to take the starch out of his halo, yet to say that he controlled the whole quinine situation on behalf of all the Associated Governments during the war is to make a statement to which Mr. Abrahamson would probably not wish to subscribe. He was officially attached to the Contracts Branch of the War Office from September 1917 to April 1919, and various Government departments had been quite busy long before that period collecting information regarding bark and quinine. Yes, and I was "one of them," from the time war broke out. I have followed bark and quinine quite attentively for twenty-five years, and also endeavoured to absorb the very full records collected by my late firm Widenmann Broicher & Co. and going back to the very beginning of cinchona matters; so, although I have not heard the bark grow, I am yet acquainted with one or two points connected with its history, production, and distribution, and there is quite a nice pile of letters from various Government departments freely acknowledging the value of the assistance of "one of them." I would refer your anonymous friend to the *C. & D.*, September 20, 1919, p. 62, second half of first column, where Mr. Abrahamson's alleged dictatorship seems to be disproved; also the Board of Trade White Paper of January 15, 1920, and *C. & D.* interviews with Mr. Abrahamson, January 31, 1920, and other issues all apt to create the impression of differences of opinion rather than of absolutism. . . .

Faithfully yours,
W. BREDT.

The Lure of the Orient.

SIR.—In reply to "Pre-war Colonial" (*C. & D.*, July 10, p. 79), I note his remarks *re* working-hours, 7 A.M. to 9 P.M. Just imagine anyone leaving this country to go out to India to work such long hours, and run the risk of fevers, dysentery, etc., due to climatic conditions. These are the hours of native dispensaries, and I am sure no white man would attempt such a thing, and neither is it expected of him. We have several in Singapore who keep open during these hours, but they employ no Europeans. Where does "Pre-war Colonial" get time for recreation? I was amused at the story of his friend attempting to join a certain club and the secretary turning his back to him, etc. It is all too sad, but enough to make a dog laugh. No doubt the secretary had measured up his friend well before turning his back, and found out he was working in a store from 7 A.M. to 9 P.M., and put him down as a second native. "Pre-war Colonial" must remember that the European has a kind of prestige to keep up in the East, and if he condescends to lower that to the same as a native by keeping open so long, it is not surprising that he is tabooed by his own countrymen. Anyone joining a club in the East is usually well inquired into before being admitted to membership; but I have never been treated

in the same manner as "Pre-war Colonial's" friend, as all the friends I met in the Straits were men of the first water and it was with the deepest regrets I left them. Surely the hours of business must have been mentioned in the agreement, and it was up to "Pre-war Colonial" to refuse such hours as 7 A.M. to 9 P.M. He need not blame the agents, as the fault was entirely his own. However, he selected either the wrong situation or the wrong colony; but that need not deter other young men from going East, as there are certainly more opportunities out there than there are in this country—to the right man, and, as I said in my first letter, to one with his head screwed on the right way. Yours faithfully,

JAMES MCKENZIE.

On Advertisements.

SIR.—May I be permitted to give a brief reply to the letter of Mr. Chas. Hamus (*C. & D.*, July 10, p. 78)? When an advertisement gives full particulars as to "article, prices, discounts, etc., " the thing is finished, and there is no need for the reader to trouble about it further, but where an advertisement states "Jones, Pill-maker," to quote the illustration Mr. Hamus uses, there is no knowing what attractive offers there are to be had in reply to a post-card of inquiry. The advertiser does not want to let his competitors know what he is offering, and Mr. Hamus could often save 20 per cent. (instead of the 5 per cent. he mentions) by just sending his inquiry for particulars. I quite agree with him regarding the portrait and gold-medal advertisements. Then, again, Mr. Hamus must not forget that the *C. & D.* advertisements are as much for the wholesale and shipping trades as for the retail chemist, and the big buyers, being men of business, know that when an advertisement says "Send inquiries," there is something worth knowing to be found out, and he loses no time in hearing the "good news." It is evident, by the scarcity of such advertisements, that the style of advertisement Mr. Hamus advocates is not the right one from the wholesale point of view. Let Mr. Hamus go through the *C. & D.* and send a few inquiries, and judge for himself whether "full information" is better than the offer of a "tempting bait."

Yours faithfully,

J. H. (13/7.)

Remaining an Assistant.

SIR.—Your correspondent "Co-operation" (*C. & D.*, July 10, p. 79) says truly that a proprietor and four assistants can work more economically than separate establishments, but when he uses the words "for each other's weal," he touches the crux of the whole question. The first law of Nature is self-preservation, so that it is hardly to be expected that in the struggle for existence, which to-day is an economic struggle, the outlook of each individual would coincide, and I find that the dictionary definition of "co-operate" is to labour for the same end, so that the proprietor naturally looks on that end as referring to his bank-book only, and the assistant considers it as including his increase in wages. The two ideas do not run well together in harness. "Co-operation" instances engineering concerns; but he must remember that engineers are employed in such numbers that they can make their weight felt, but the retail drug-trade is so small that the assistant has no argument except to leave and look for a new position, possibly worse. Let us suppose that a proprietor with three assistants turns over 6,000*l.* a year and makes 1,000*l.* profit; now the following year, by intensive methods, we will presume that the turnover rises to 8,000*l.*, and it is not too much to assume a further profit of 500*l.*, the expenses remaining constant. How much of that extra profit would "Co-operation" expect to get? I can tell him how much he would receive in practice, exactly nothing; there never has been a proprietor yet who would not look on it as the reward of his business ability, and the consideration of assistants would not enter into the subject at all. Now if we could get our definition to read as labouring for a mutual end, instead of the same end, how comfortable we all could be! Yours faithfully,

UTOPIAN. (91/9.)

Profiteering Regulations.

SIR.—The amended regulations under the Profiteering Act (*C. & D.*, July 10, p. 53), although emphasising the ruling that the profit shall not exceed the pre-war percentage rate, still leave the vexed question of current prices unsettled, and although there has been a recommendation that the profit should be judged by present-day value irrespective of the date of purchase, it is still in the power of the Committees to take the invoice price into account and base the profit made on that. The Profiteering Act is not quite such a bugbear now as it was at first, as the general public, which has plenty of common sense taken *en masse*, realises that the average retailer is not a shark in disguise, and that the cause of high prices is to be sought in a different direction altogether; but so long as the Act is in operation there is a possibility of cases arising, and a definite ruling that the current market value is the one to take would be a fair one to all. When the cost of an article drops, the retailer is forced by competition to lower his prices, irrespective of what he paid for it, so that the extra profit he may get by careful buying should not be called illegitimate.

Yours faithfully,

CURRENT RATE. (12/7.)

Dispensing Difficulties and Notes.**Zinc Emulsion.**

SIR.—Is it possible to get a stable, white preparation from the following?

Zinci oxid.	...	...	...	5j.
Ol. oliveæ	...	...	...	5iv.
Aq. calcis ad.	...	...	...	3iv.

I have made it, but it separates after a time. Would you also say how the exact amount of oil is calculated for a suppository containing a heavy powder? For example, ol. theobromæ gr. xj., and iodoform gr. v. would only about three-quarters fill the mould. I should imagine, therefore, that about 19 grains of the mass would be needed to fill the moulds. Yours faithfully,

H. M. (2/7.)

[(1) A stable white cream cannot be made from the prescription as it is written. There is too little oil ordered. When olive oil and lime water are triturated together lime soap is formed, and that is not soluble in water, hence the separation which you have experienced. Lime soap is soluble in excess of oil, therefore what is required is more oil. Triturate the zinc oxide and olive oil together and gradually add, with trituration, about three-fourths of the lime water, and make as good a cream as you can; then incorporate gradually sufficient olive oil to form a white uniform cream. About double the quantity of olive oil ordered is required to produce a cream. This, no doubt, is what the prescriber desires, and the modification is quite permissible. If the prescriber be known to you he would probably be grateful to have you diplomatically bring the defect in his prescription under his notice. (2) We are afraid there is no ready reckoner for calculating the exact amount of theobroma oil required when powders of different densities are ordered in suppositories. The Pharmacopœia does not give any assistance in this respect. Five grains of iodoform will occupy much less bulk than, say, five grains of tannic acid. More oil will therefore be required for the former. With some experience in suppository making, the quantity of oil required with different medicaments is readily estimated with sufficient accuracy for practical purposes. Moulds vary slightly, but the dispenser knows the requirement of his own mould. If in doubt a trial batch of two or three suppositories will supply guidance. Five grains of iodoform would occupy approximately the amount of space filled by 2 grains of theobroma oil, so that 13 grains at least would be required with it to fill an average 15-grain mould.]

Legal Queries.

N. L. (12/7).—**UNSTAMPED PROPRIETARIES.**—Among the conditions upon which proprietary medicines can be supplied unstamped for dispensing are that (1) only chemists are supplied; (2) the medicine forms part of a prescription—*i.e.*, that it is not dispensed unmixed with other ingredients; (3) the bottle is specially labelled.

F. N. (21/6), who belongs to the Oddfellows, asks whether, in making his return for income-tax purposes, he is allowed to deduct his yearly contributions as trade expenses. [There is no provision allowing such a deduction as a trade expense, but if a claim is made on the income-tax form, giving the amount of (a) the yearly contribution, and (b) the benefit secured by the payment, we think the Commissioners will, in accordance with their practice as to benefit societies, make an allowance for contributions up to one-fourth of the benefit secured.]

Zingeb (5/7) is tenant of a combined dwelling-house and shop, which he holds under a verbal agreement at a yearly rent of 25*l.* The landlord has given him notice that, as from July 1, the rent will be increased by an amount equal to 30 per cent. of the rent. Is this increase permissible? [If the premises were let on August 3, 1914, at the rental mentioned the amount of the increase is permissible; but "Zingeb" is not liable to pay it until his present tenancy has been terminated by proper notice. The length of notice to which he is entitled depends entirely upon the terms of the tenancy, in the absence of an express agreement upon the point.]

Curious (12/7) has accepted a post as manager to a chemist. The service contract contains a clause under which he covenants not to set up in business on his own account within sixteen miles of any of his employer's branches at any time within ten years after leaving his employment. Do we consider that this clause would be enforceable? If so, what penalties would "Curious" incur by disregarding the prohibition? [We are of opinion that the restriction is reasonable and would be upheld by the Court. "Curious" might be restrained by injunction from continuing to carry on business in breach of the covenant, and might also be ordered to pay damages.]

Query (11/7) accepted a post as assistant to a chemist about five months ago. It was agreed that the engagement should be terminable by a month's notice. The chemist has now sold the business to a limited company, which has agreed to retain "J. M.'s" services "for a few weeks" while he looks out for another post. Is "J. M." entitled to claim a month's wages in lieu of notice terminating his engagement? [Unless "J. M." has agreed to serve the company upon terms which make his engagement terminable upon shorter notice, he is, in our view, entitled to a month's notice of dismissal, or, in default, to a month's wages in lieu of notice. As, however, "J. M.'s" services are being retained for a few weeks, we assume that he has been given the requisite notice, and he is not entitled to claim payment of a month's wages instead of continuing to work during the period of his notice.]

E. E. R. (9/7) is tenant of premises which comprise a shop and also living-rooms, the latter being sub-let by him. His rent is 35*l.* per annum and he pays rates and taxes. He asks when the new Increase of Rent Act came into force; by what amount the landlord may increase the rent; and whether the landlord is bound to execute repairs before making the increase? [The new Act was passed on July 2. The landlord is entitled to increase the standard rent by 5 per cent., and, if he is responsible for all the repairs, by a further 25 per cent. If he is responsible for part only of the repairs the latter advance will be correspondingly reduced. The county court may suspend the landlord's right to increase the rent if the premises are not in a reasonable state of repair. Subject to the terms of the tenancy the increases may be made by the landlord upon giving one month's notice in the prescribed form. This matter is fully dealt with on p. 57 of this issue.]

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Hair-preparation Coupons.

Northern Chemist (6/7) writes: For the first and last time I have sent up a set of twenty coupons for a customer in connection with a largely advertised hair preparation. Now I am 2d. out of pocket and receive no compensation for my time, which was of some value. I could point out a better way for the firm in their dealings with the trade, and it would save them money; but let them use their own "grey matter."

Increasing Insurance.

K. L. (7/7) writes: The various insurance companies are advising their clients to see they are insured for an adequate amount, in view of the greatly increased cost of labour and materials. I have a fire policy which I have held for thirty years, and which continued what my predecessor had held for many years. It is as follows:

Stock-in-trade	...	...	...	...	...	£200
Glass bottles, show-cases, plate glass and plate-glass fronts	...	...	...	...	...	£200
Trade fixtures and fittings	...	...	...	...	...	£400

Assuming those figures correctly represent the approximate value in pre-war times, I should be glad to know your opinion as to what percentage of value should be added to render the policy a fair up-to-date one. I have asked the insurance company concerned; they replied that they are not valuers, but mentioned that many of their clients have doubled the value of their policies. [The general rule seems to be to double the amount of the pre-war insurance, but we shall be glad to have the experience of our readers.—Ed.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

H. S. (5/7).—(1) BOOT-POLISH.—A modern formula was given in the *C. & D.*, December 27, 1919, p. 88. (2) The transfers are made on to tins by pressure with a hot die.

J. H. T. (83/10).—ESSENCE OF VANILLA.—

Vanilla	...	...	...	3 oz.
Rectified spirit	...	...	...	20 oz.

Beat the vanilla to a paste and rub in a mortar with 3 oz. well-washed sand, transfer to a bottle, add the spirit, and macerate for twenty-eight days, shaking occasionally. Then strain and filter.

S. M. C. (16/6).—BATTERY SOLUTION.—The following are used for the bichromate cell:

(1) Bichromite of potassium	5iv.	(2) Sodium bichromate	145 gram
Bisulphate of mercury	5ss.	Sulphuric acid	300 c.c.
Sulphuric acid	5v.	Water	1,000 c.c.
Water	3vj.	(3) Chromic acid	1 part
Dissolve the two salts in the water and cautiously add the acid with constant stirring.		Water	4 to 6 parts

The Leclanché cell requires a saturated solution of sal-ammoniac.

W. J. R. (12/7).—SAMPLE OF SHELLAC.—We have submitted the sample of shellac to an expert, and he informs us that it cannot be said to be insoluble, but that it is one of the samples met with occasionally containing a small proportion of gummy matter, which gives an opaque mixture with spirit. The specimen is genuine shellac. The solution can best be cleared by filtration.

M. J. C. (19/1).—(1) A weak solution of boric acid is best for bathing the eye socket. (2) ARMENIAN BOLE is an earth containing iron oxide. (3) FURNITURE POLISH.

(A) Oleate of ammonium	3ij.	(B) Linseed oil	3xx.
Solution of ammonia	3ij.	Spirit of turpentine	3xij.
Shellac varnish (1 in 8)	3vj.	Solution of ammonia chloride	3j.
Linseed oil	3vj.	Vinegar	3viii.

Mix the solution and oleate, add the varnish, and shake well; then add the oil and shake thoroughly.

Dissolve the camphor in the spirit and the sal ammoniac in the vinegar. Mix the ingredients in the order of the recipe.

(4) RINGWORM OF THE BEARD.—Ung. hydrarg. ammon. is the best application.

W. W. (12/7).—CEMENT.—We advise that you experiment with a cement of the liquid-glue type. A recipe containing acetic acid is much in use, and would form a starting point for your experiments. The following is a suitable formula for this purpose:

Glue	3ij.
Gelatin	3ij.
Acetic acid	3iv.
Water	3ij.
Alum	5ss.

Heat together for six hours, skim, and add
Spirit 3j.

L. H. (6/7).—CUTICLE REMOVER.—The liquid used for removing cuticle from the finger-nails is usually a solution of a vegetable acid—acetic or tartaric. A slight tint is sometimes given with litmus.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," July 15, 1870.

The Apron in Pharmacy.

Corporally in Paris, but mentally in London, an odd reflection has struck me by discovering some mouldering relics in an old trunk—a dozen mystic, wonderful white aprons! In France one would be taken for a *garçon de café*, if venturesome enough to don the white samite. Let us trace their origin. The translation of the fig-leaf into the apron is less incomprehensible than that of gourds into Frankish hats. With knowledge came aprons. The learned apothecary blushingly hides his light behind a white cotton pinafore, and eclipsing himself and his apron behind his smiling showcases, contemplates the analogy between aprons, fig-leaves, and knowledge, and concludes the apron to be an old, very old badge of an inner-consciousness of superior wisdom. Now, if aprons were of some peculiar shape or colour, distinctive emblems of pharmacy, mystically embroidered like a chasuble, with pestles and mortar or other heraldic devices woven by fair hands, might not the youthful knights of the order feel proud of their craft; might not the grand master and the past grand masters of Pharmacy be decorated with elaborate aprons of divers colours; might we not appear on conversazione nights in magnificently jewelled resplendencies, the envy of freemasons and household troops, and the admiration of nursemaids and little boys? The great houses who keep up the traditional apron we can't directly blame; they fought well for pharmacy, and deserved the thanks of the younger craftsmen; yet why should they, who once behaved so liberally, force their peculiar ideas upon those who, by example and precept, may become the future beacons of pharmacy? To compel an educated man to wear a humiliating badge, and at the same time expect him to have the attainments of a scholar and a gentleman, is so utterly out of place, so ineffably ludicrous, and such an absurd anachronism, that common sense revolts at the fact.

JULY 17, 1920

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SUPPLEMENT

i

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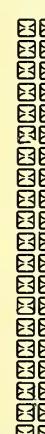
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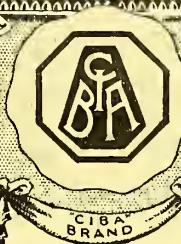
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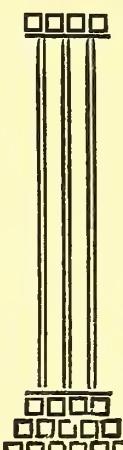
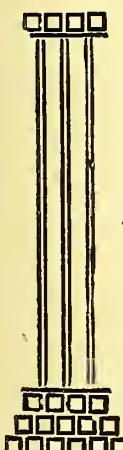
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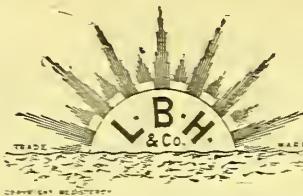
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" Bone Pulv. 3 cwt. @ 89/- cwt.; 1 cwt @ 90/6 cwt.; levigd. cwt. or lb. extra,

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Sinocroco. 6 lbs. @ 1/11 lb.

Cluchonæ (Rubra) Conc. 1-7, 6 lbs. @ 4/- lb.

" Senegæ Conc. 6 lbs. @ 2/- lb.

Inf. Calumba Conc. 1 to 7, 6 lbs. @ 1/11 lb.

" Caryoph. Conc. 1 to 7, 6 lbs. @ 2/2 lb.

" Cascara Conc. 1 to 7, 6 lbs. @ 2/2 lb.

" Cinchonæ Acid. 1 to 7, 6 lbs. @ 3/10 lb.

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" Rosæ Acid. Conc. 1 to 7, 6 lbs. @ 3/4 lb.

" Senegæ Conc. 1 to 7, 6 lbs. @ 7/2 lb.

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Syr. Aurant. P.B. 7 lbs. @ 2/5 lb.

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" Rhamn. 7 lbs. @ 2/1 lb.

" Rhei. P.B. 7 lbs. @ 2/6 lb.

" Scilla. P.B. 7 lbs. @ 1/6 lb.

" Senna. P.B. 7 lbs. @ 1/11 lb.

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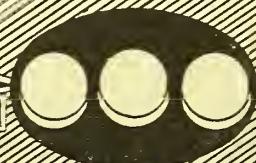
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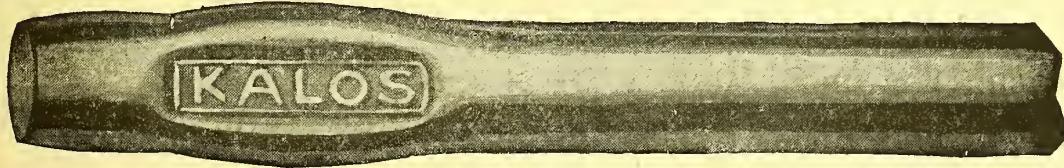
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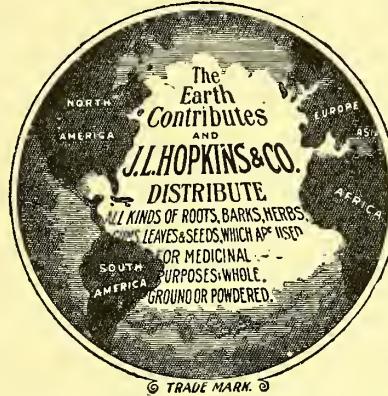
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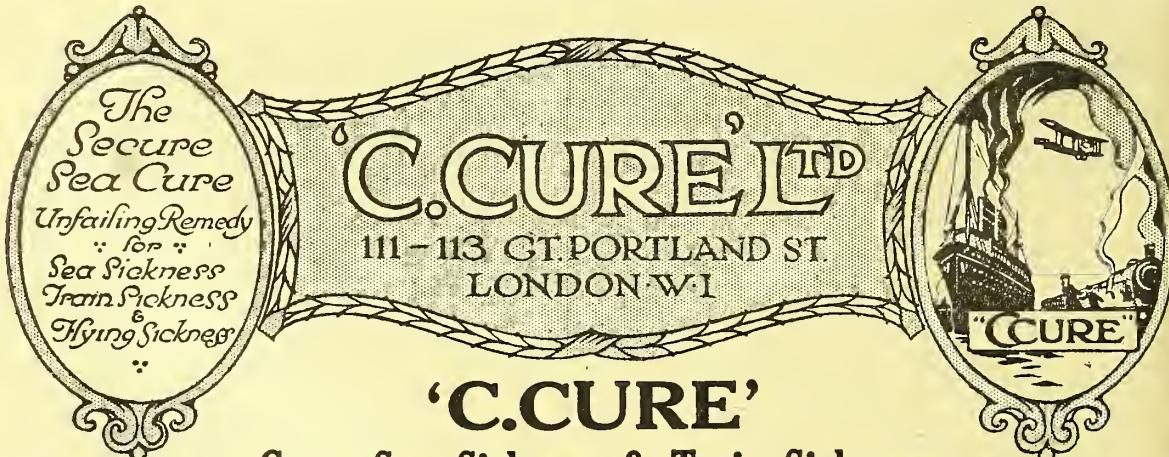
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MANUFACTURED WHOLLY IN GREAT BRITAIN OF BRITISH INGREDIENTS.

PROTECTED PRICES OF 'C.CURE' packed in aluminium boxes enclosed in decorated cartons.

LARGE SIZE, 8/- per box. Contains capsules for Four Journeys.

SMALL SIZE, 4/- per box. Contains capsules for Two Journeys.

Each box contains twice the value of any other sea-sickness remedy.

DISCOUNTS TO CHEMISTS	25 %	Discount	... For quantities up to Six Dozen.
	25 % & 10 %	...	For quantities over Six Dozen and under Twelve Dozen.
	25 % & 15 %	...	For quantities over Twelve Dozen.
	Special Extra Cash Discount 2½ %.		

All accounts must be paid on 20th of month following date of invoice.

Correspondence invited from Wholesale and Retail Chemists in every part of the World. Correspondence in all languages. Apply to above address.

Telephone : 4510 MAYFAIR.

Telegrams : "CECURICO, WESDO, LONDON."

ÉTABLISSEMENTS CHATELAIN,

2 & 2 bis RUE DE VALENCIENNES, PARIS.
Sole Manufacturers of

JUBOL

RE-EDUCATION OF THE
INTESTINE.Constipation, Enteritis, Hæmorrhoids,
Indigestion, Skin Blemishes, &c.

Price 5/- per box.

GLOBÉOL

POWERFUL BLOOD TONIC.

Anæmia, Nervous Exhaustion, General
Debility, Tuberculosis Convalescence,
etc.

Price 5/- per bottle.

PAGEOL

POWERFUL URINARY
ANTISEPTIC.Cystitis, Prostatitis, Catarrh of the
Bladder, Renal Tuberculosis, etc. etc.

Price 5/- and 11/- per box.

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SCIENTIFIC SUPPOSITORIES

For Hæmorrhoids, Rectitis, Anal Fistula, etc.
Anti-hæmorrhagic, Sedative, De-congesting.

Price 5/- per box.

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POWERFUL URIC ACID
SOLVENT.Rheumatism, Gout, Arterio-sclerosis,
Stones, Gravel, Sciatica, Neuralgia and
all Uric Acid disorders.

Price 12/- per bottle.

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New Scientific Preparation for Chronic
Skin Affections, Psoriasis, Eczema,
Acne, etc.

Price 11/- per bottle.

SINUBÉRASE

SCIENTIFIC PREPARATION OF
LACTIC FERMENTS.Indicated in Intestinal Disorders,
Dysentery, Diarrhoea, Dyspepsia, Enteritis,
Typhoid, Skin Eruptions, etc., etc.

Price 5/- per bottle.

FANDORINE

Metrorrhagia, Dysmenorrhœa and Lactation,
Pains, etc. etc.

Price 5/- and 11/- per bottle.

GYRALDOSE.

Antiseptic for local Gynaecological use.
Price 4/- per box (powder)
" 5/- " (tablets)

FILUDINE

SPECIFIC FOR THE LIVER.

Malaria, Diabetes, Cirrhosis, Sluggish
Liver, Tuberculosis, etc.

Price 11/- per bottle.

SOLE BRITISH AGENTS—

Heppells

Pharmacists & Foreign Chemists, 164 Piccadilly, LONDON, W.1.

Telegrams: "URODONAL LONDON."

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Stocked by all Wholesalers.

Now being largely advertised.

ALL CHEMISTS
SHOULD STOCK

ABDINE

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 years' Reputation.
"Abdine" is the most popular Health Drink, superior to all Mineral
Waters. Sold in Packets, 2d. each.

Wholesale Prices on application. Sample Box 1/6.

D. MCCLASHAN, M.P.S., [Abdine Works, Westfield Road, EDINBURGH.]

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The Best and Cheapest
White Dense and Filler

Especially suitable for Dental Creams, Powders, etc.

Prices and samples on application.

THE WHITEPHILL CO., St. Austell

ERNEST JACKSON & CO.,

Manufacturing Chemists. Ltd.

Specialists in: COMPRESSED TABLETS; MEDICATED LOZENGES, &c.

INVENTORS
of*Glossettes*
REGD.THE ORIGINAL
(cushion-shaped)
PELLETS ofLIQUORICE & MENTHOL,
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Telephone: Crediton No. 10. Telegrams: "Jackson Crediton."
London Depot: Plantain Place, Crosby Row, Borough, S.E.
Telephone: Hop 2668.

P.A.T.A. NOTICE.

113 Temple Chambers, E.C.4.

July 17, 1920.

The following revised prices are
now in force:

Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price.
"Allenburys"		
1/- Toilet Soap ...	1/- tab.	
(Box of 3 tabs.) ...	3/- box	27/- doz. bxs.
(Box of 12 tabs) ...	11/-	8/3 box
1/- Antiseptic Toilet and Baby Powder (made by Johnson & Johnson) ...	1/-	8/6 doz.
		8/- doz. in gross quantities

Manufacturers of Toilet & Perfumery

Articles of a Proprietary character,
sold largely in the Drug Trade,
are cordially invited to place these
preparations on the Protected
List. All inquiries on the subject
to the Secretary will be promptly
attended to.

D.D.D.

Prescription

FOR ALL SKIN & SCALP DISEASES

A well-advertised, high-grade preparation, enjoying a steadily increasing sale. On the P.A.T.A. protected list, giving the retailer a profit of about 25%

TRADE PRICES.

	pe. doz.
D.D.D. Prescription 3/- bottle, M.R.P. Face Value, @	27/-
" " 5/- " " " " " " 47/-	

In two strengths Ordinary and Strong.

	pe. doz.
D.D.D. Soap 1/3 tab. M.R.P. Face Value, @	10/-
" Shaving Soap 1/6 stick " " " " 13/6	
" Vanishing Cream 2/6 jar " " " " 22/6	
" Shampoo Powders 2/6 box " " " " 22/6	

Carriage paid to any part of the United Kingdom.

Showcards &c. Supplied Free.

D.D.D. Co., Ltd.
3,5,7 Fleet Lane, Ludgate Circus, London, E.C.4

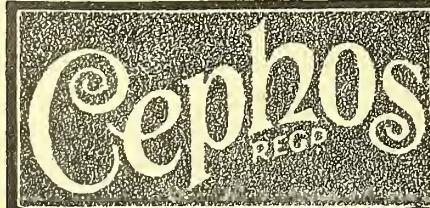
LIQUID BARKOLA COMPOUND
Wholesale 30/- per doz.,
Retail 3/- each.

Each bottle (1 oz.) carries instructions to the chemist to make up to the following Standard Formula—

Liq. Barkola Comp., 1 oz.; Tincture of Gentian, 1 oz.; Syrup of Rhubarb, 1 oz.; Syrup of Ginger, 5 oz.

Chemist's charge according to their own scale for dispensing

THE BARKOLA CO., LTD.,
42 Great Dover St., LONDON, S.E.1.
Proprietors of Barkola Alvexo, Barkola Balm, &c., &c.



For NEURALGIA, HEADACHE,
RHEUMATISM and INFLUENZA.

Write for wholesale terms to
CEPHOS LTD., Blackburn, Lancs.

We invite you—

to participate in the increased trade accruing from the publicity campaign which has been, and is still being, carried out.

This advertising is telling the public the value of IGLODINE in all its various uses. Your customers are being told. They are learning the wisdom of always asking for IGLODINE Specialities.

See to it that you are able to meet this ever-increasing public demand for Specialities which bear the name

-Iglodine-

IGLODINE

Our Terms permit a 50% profit to the Retailer.

For Cuts, Burns, Scalds, Wounds, etc., and for Colds, Influenza and Throat Trouble Iglodine Preparations are remarkably effective.



Iglodine Specialities.

Antiseptic, Embrocation, Ointment, Pastilles, Tablets, Soap, Nasal Douche, Suppositories.

Write to-day for full particulars and for coloured display poster, 14 in. by 19 in. as here illustrated.

THE IGLODINE CO. Ltd. (Dept. N)
Pilgrim Street, NEWCASTLE-ON-TYNE.

Sell Musterole for Neuralgia.

When your customers complain of neuralgia or headaches, recommend Miller's Musterole. A little rubbed on temples and neck draws out the inflammation, soothes away the pain, and gives quick relief.

Miller's Musterole is a clean, white ointment made with oil of mustard, put up in a handy white jar. It is better than a mustard plaster, does not blister and eliminates the bother and mess of a cloth. Used only externally, it can in no way affect the stomach and heart.

Nation-wide advertising is co-operating with the recommendations of nurses and doctors to build up an increasing demand for this practical remedy. Get your share of Musterole business by ordering a supply to-day. Additional information and prices on request.

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ALL REACTIONS ^{of} the Body Fluids and Tissues are COLLOIDAL.

"Collosols" are pure and stable colloidal solutions, isotonic and isomorphic with the elements of the body.

CROOKES'
COLLOSOLS

"Collosols" are tested by ultramicroscopic bacteriological and clinical experiment.

COLLOSOL SULPHUR

Collosol Sulphur is not presented as a substitute for the Spa treatment of such affections where Spa treatment is available, but as a supplement to it. A course of treatment at a Spa can be followed up by the exhibition of Collosol should relapses occur.

For patients who are unable to take a course of Spa treatment, practitioners will find Collosol Sulphur invaluable.

It is prepared in five different forms—for external use and bath medication, for internal administration, for injection, and as a cream, with which the affected part is gently massaged. Also as an oil for the scalp.

Also the following COLLOSOL Preparations:—

**ARGENTUM, ARSENICUM, CUPRUM,
FERRUM, HYDRARGYRUM, IODINE,
MANGANESEUM, PALLADIUM.**

Kindly Note Change of Address

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Have you a WINE LICENCE?

If not, you should take steps to procure one,
and we will pay the cost.

If you already have a licence we undertake to
pay the annual charge.



The only conditions are—

1. That you agree to give full display to Dr. Hale's Vin-Sanguis in your premises all the year round.
2. That you give us an agreed initial order.
3. That you keep Dr. Hale's Vin-Sanguis always in stock.

Advertising Matter and Doctors' Samples free.

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Be secure against all risks—by possessing THE POOL COMPREHENSIVE SHOPKEEPERS' POLICY covering you against Fire, Burglary, Workmen's Compensation, Plate Glass, Public Liability, Third Party Drivers, Loss of Profits, Loss of Rent, Riot and Civil Commotion, Bursting of Waterpipes, Storm, Flood and Tempest.

The
POOL COMPREHENSIVE
SHOPKEEPERS' **POLICY**

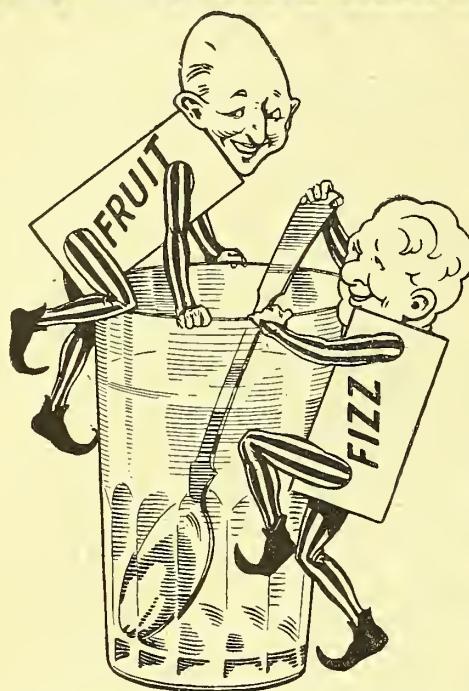
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VICTORIA EMBANKMENT,
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Funds Exceed £500,000.

Founded 1890.

ANNUAL BONUSES.



*The Quenching Twins' message this week is :
"Read the terms below for the fastest
selling summer line ever produced."*

Quencholeen LEMONADE

"The Perfect Summer Drink."

For an outlay of £3 : 12 : 0 less 2½% cash with order, your order would be 6 doz. cartons. These sell at 1/6 each, yielding £5 : 8 : 0, and showing a return of £1 : 17 : 10. This represents a profit of 52½%.

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Send your FIRST order NOW—your second will follow as a matter of course—"repeat" business is assured with QUENCHOLEEN

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CARTWRIGHT'S LEMON SQUASH POWDER

**3d.
packets.**

A wonderful seller packed in waterproof boxes. The powder contains a Terpeneless Lemon and the necessary sugar. One packet makes one pint. Good window bills with all orders.

1 gross 22/- per gross.
5 " 21/- "

W. B. CARTWRIGHT, Ltd.,
Makers of Pharmacy Specialties,
RAWDON, near LEEDS.

HEALTH SALT SUPERIOR QUALITY.

4-oz. Decorated Tins.
1 Gross ... 78/- 5 Gross ... 77/-
2 " ... 77/6 10 " ... 76/6
Carriage paid.

W. FOX & SONS, Wholesale
Botanic Druggists
CASTLE STREET, SHEFFIELD.

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CANNONS,
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LOSALL'S SALT

SELLS FREELY & READILY
PAYS 50% ON OUTLAY

*An Infallible
Remedy for
GOUT,
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ECZEMA,
and
SKIN
AFFECTIONS.*

P.A.T.A. Doz.
4 oz. 1/- 8/- net
8 oz. 1/10 15/- "
Bottles 2/6 20/- "

*The only line of its
kind on the market.*

**SOLD
EVERWHERE**

Manufactured by
LOFTHOUSE & SALTMER, Ltd., HULL



MASON'S EXTRACT OF HERBS

can be made up successfully with Treacle.

Please apply for supply of descriptive bills for distribution or counter use, to

Newball & Mason
NOTTINGHAM.

New English Medicinal Herbs, Roots & Flowers.

Agrimony, Avens, Bittersweet, Belladonna, Clivers, Colchicum Corms and Seed, Colchicum Leaves and Corms, Dandelion Herb, Fumitory, Ground Ivy, Meadow-sweet, Mugwort, Nettles, Ragwort, Shepherd's Purse, Digitalis, Wild Carrot, Wood Betony, Yarrow, Yellow Dock, White Bryony, etc.

For full list, prices and particulars, apply—
FLEMONS & SONS,
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Vinum Xericum

BUTTS. HOGSHEADS. QR. CASKS.
108 gallons. 54 gallons. 27 gallons.

STRENGTH 17°

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GLACIAL - 98/100 %
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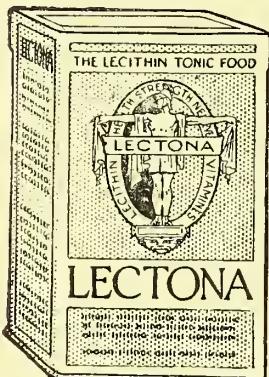
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“LECTONA”

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LECTONA is a scientific preparation containing Lecithins (the essential constituents of the Nerves and Brain) and Vitamines.

The Lecithins are present in a form in which they are completely assimilable.

LECTONA represents the LATEST RESEARCHES upon the Lecithins and Vitamines, and marks a DISTINCT ADVANCE UPON ALL TONIC FOODS.

The 5/6 tin contains sufficient for a week's treatment. EACH DOSE CONTAINS 3 grains of LECITHIN.

Its action is rapid and benefit is apparent almost immediately.

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VINUM AURANTII B.P. Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only)

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The Largest Makers in the United Kingdom.

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Packed for dispensing only,
in 10, 22, 40 & 90 oz. bottles.

“Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable.”

The Practitioner.

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Of proved utility in Nervous Diseases,
and a powerful Restorative for the
Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

“It is of high nutritive value enhanced by the presence of assimilable phosphates.”—*The Lancet*.

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No. 1.	1 1/2 oz. Tin	9/- per doz.
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” 3.	6 1/2 ”	24/- ”
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MIST. PEPSINA CO.
c. BISMUTHO

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Packed for dispensing only,
in 10, 22, 40 and 90 oz. bottles.

“Obviously likely to be of
much advantage in the frequent cases of irritative
dyspepsia, with atony of
gastric or intestinal muscular layers.”

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Introduced and Prepared only by C. J. HEWLETT & SON, Ltd., Wholesale Druggists, 35-42 Charlotte St., London, E.C. 2.

Four bottles of Osmos FREE!

As a part of the great Osmos advertising campaign now in operation throughout the country, and as a special inducement to chemists to secure the utmost benefit from the rapidly growing demand for this British Medicinal Water, the proprietors offer FOUR BOTTLES FREE to chemists ordering one dozen. The condition is that Osmos is displayed in their window until their order is sold. Retailers who are displaying Osmos greatly appreciate the concession and are benefiting accordingly.

Osmos retails at 2/6 (P.A.T.A.)

Osmos The
Great British
Aperient Water

Trade Terms:
22/- per dozen bottles
Carriage Paid.

Osmos, Crown Wharf,
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The Medical Profession are recommending VITMAR for delicate children and Invalids.

If you do not yet stock it your wholesaler will supply you.

Manufacturers :

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Extract of Malt
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Cod Liver Oil

IN BULK, JARS OR TINS.

Prices on application.

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Proprietors { H. A. & D. D. TAYLOR
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CHEMICALS
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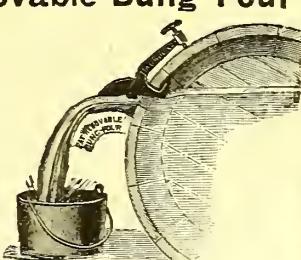
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WHITE OILS.
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Wells' Removable Bung Pour (PATENTED).

For emptying Casks
without Pump, Tap or
Stillage. Applied to and
removed from any cask
instantly. All waste and
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rapid in action than a
pump. Will fit any
ordinary cask from 20
to 60 gallons.

Does not damage the
cask.



A. C. WELLS & CO. 90 Midland Road,
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Gelatines

Fine Leaf Gelatine,
Pure Calf.

"Albion" Brand

(In 1-lb. Packets, 112 × 1-lb. to Case.)

Made in England.

FINE CRYSTAL GELATINES.
PURE SKIN GELATINES.
POWDERED GELATINES.

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“JASMINE BRAND” **ADEPS LANÆ B.P.** Superfine Anhydrous and Hydrous.
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White and Yellow Tasteless and Odourless.
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“JASMINE BRAND” **WHITE OILS** Chem. Pure, Water White,
Tasteless, Odourless.

FOR MANUFACTURING PURPOSES.

All Our Products are Guaranteed of Finest Qualities and Our Prices are Competitive.

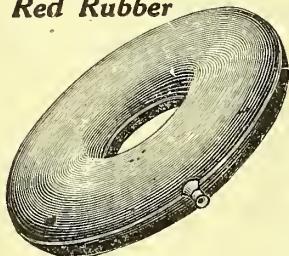
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14 "	5/10	"
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16 "	6/11	"
17 "	7/7	"
18 "	8/3	"
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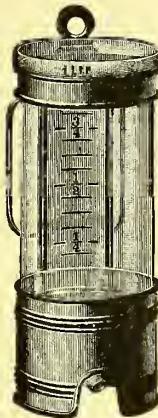
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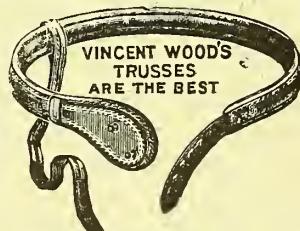
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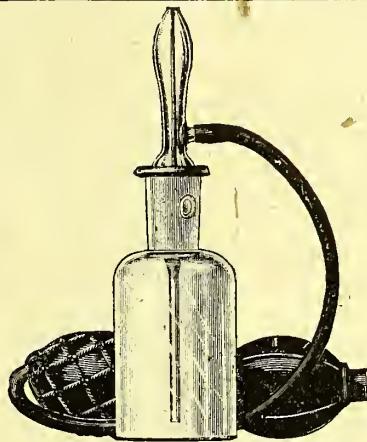
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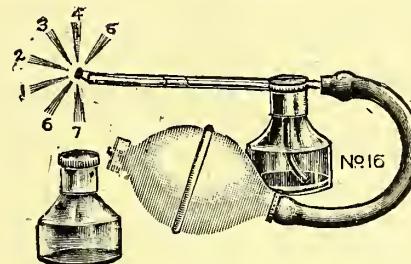
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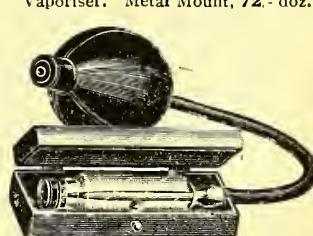
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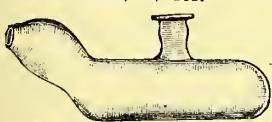
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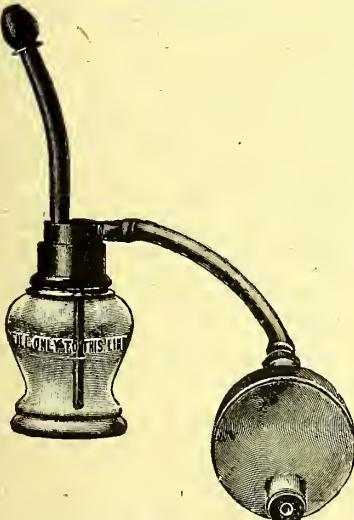


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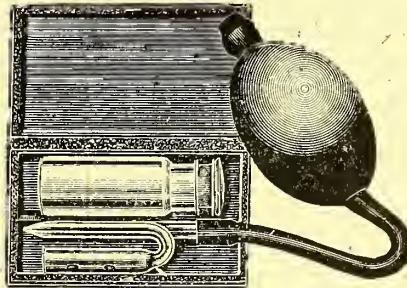
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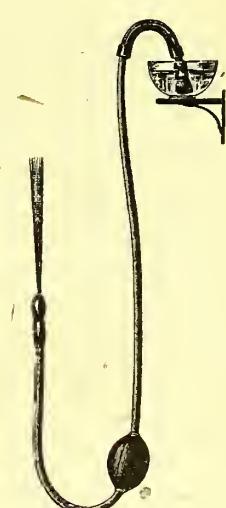
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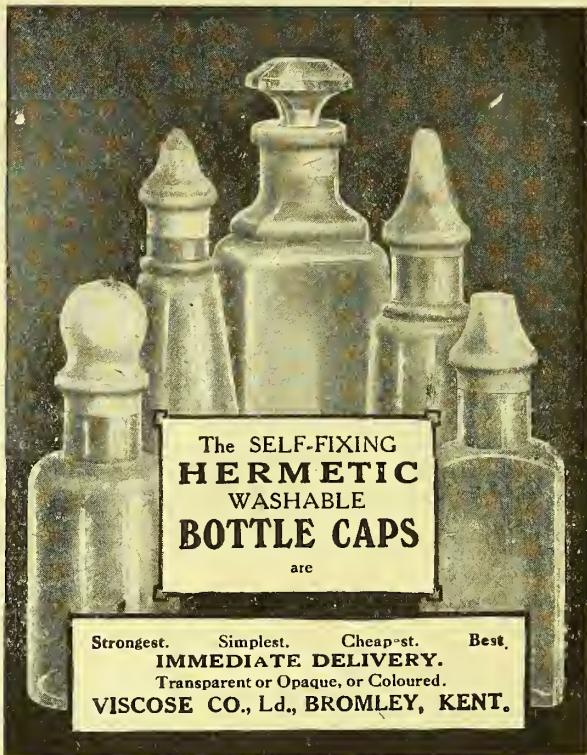
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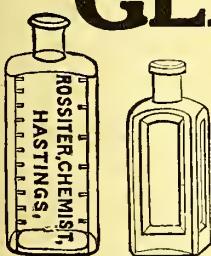
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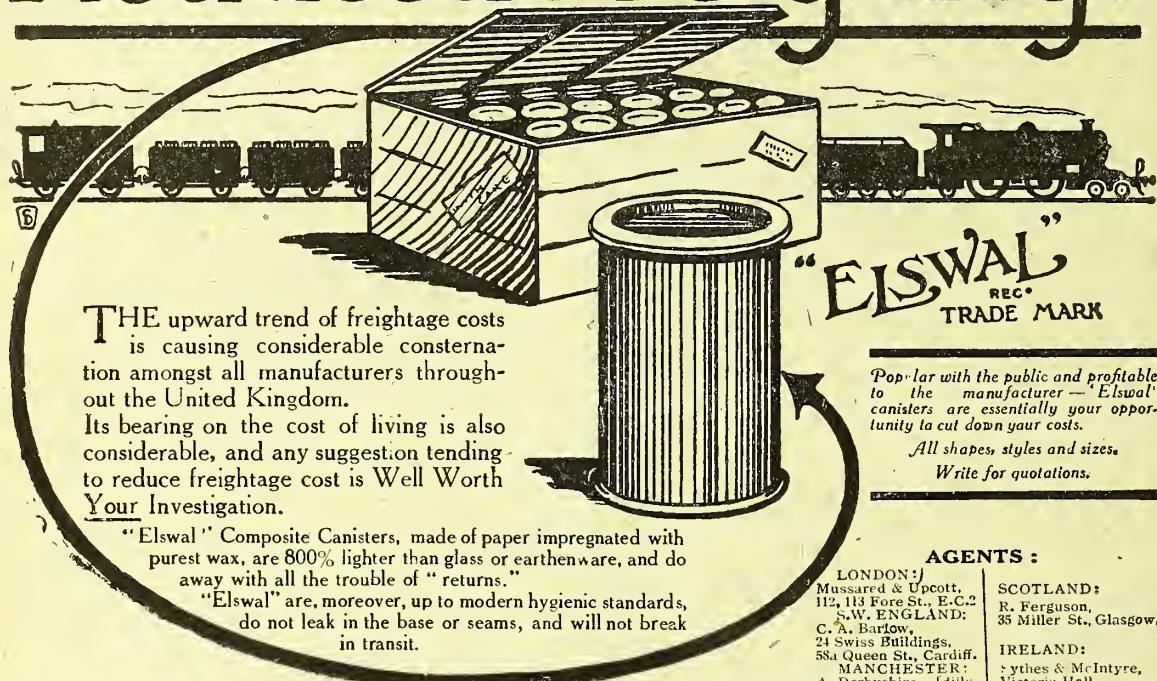
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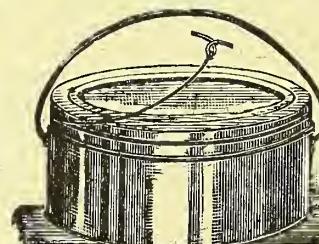
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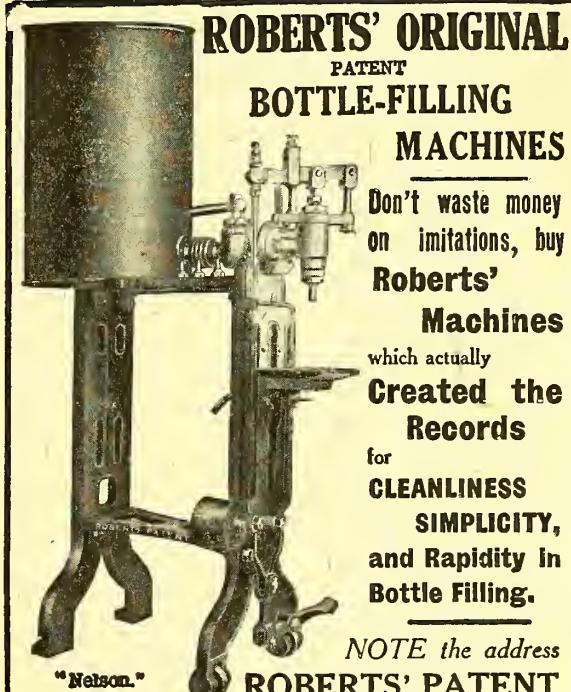
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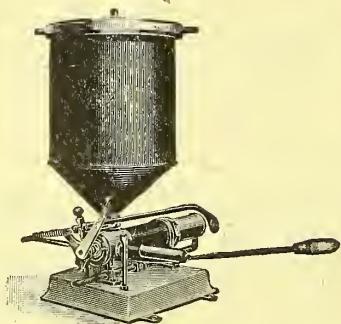
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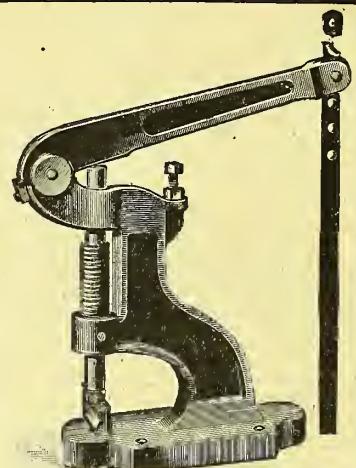
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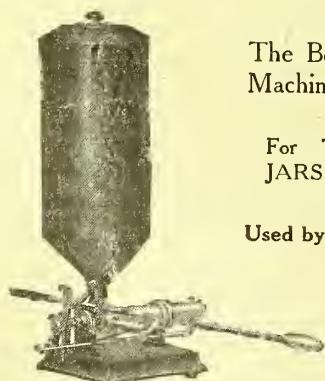
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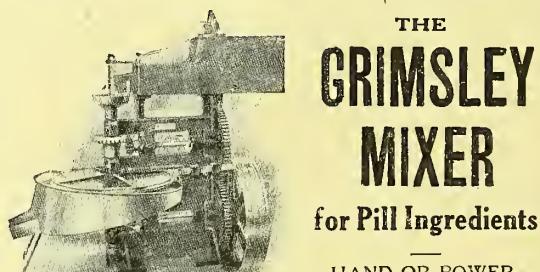
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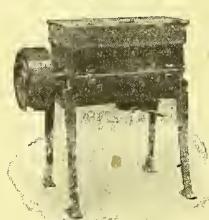


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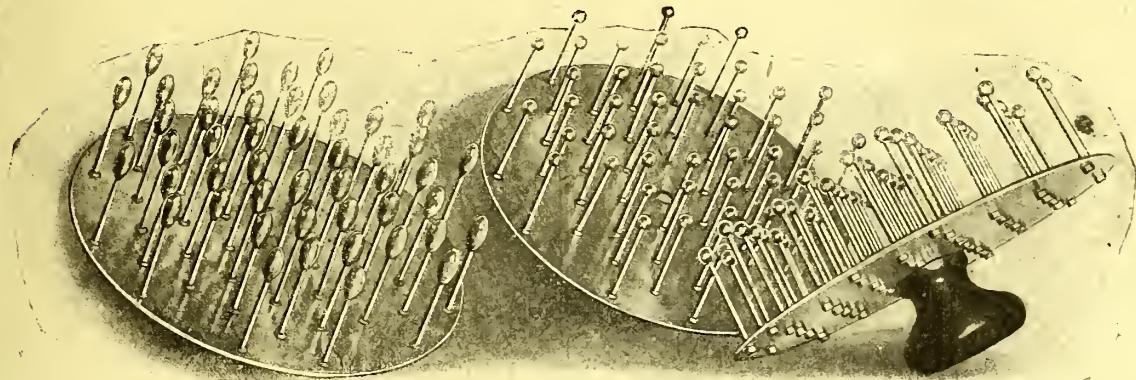
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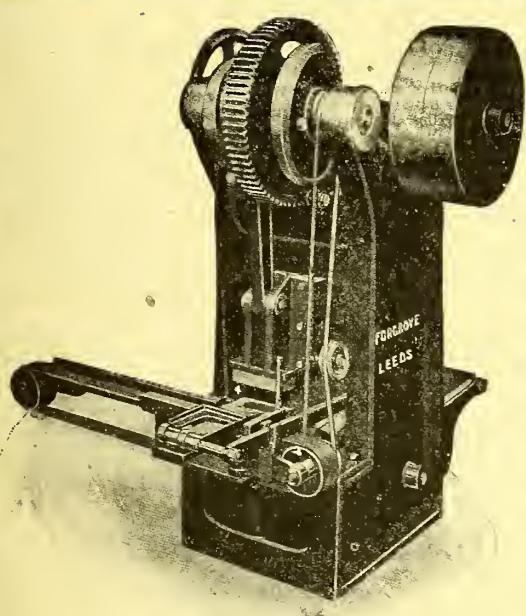
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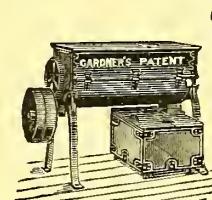
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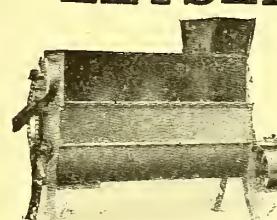


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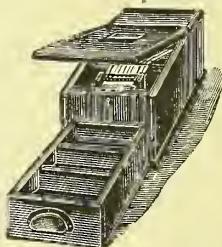
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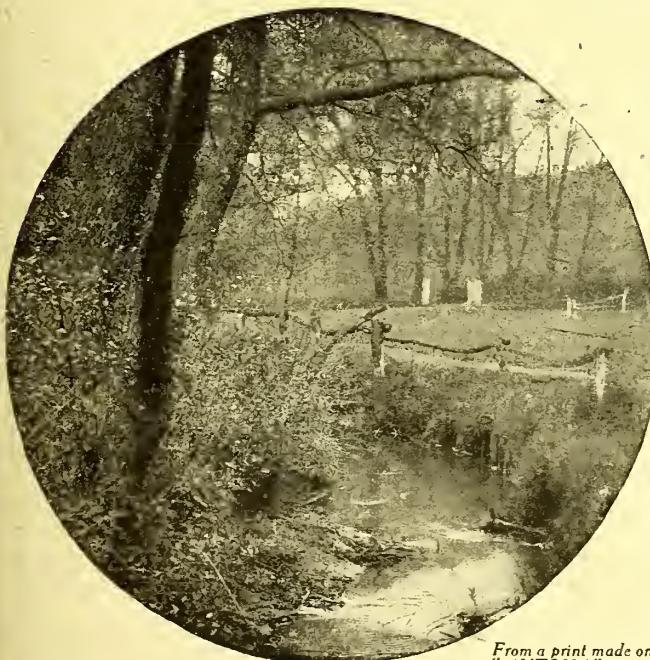
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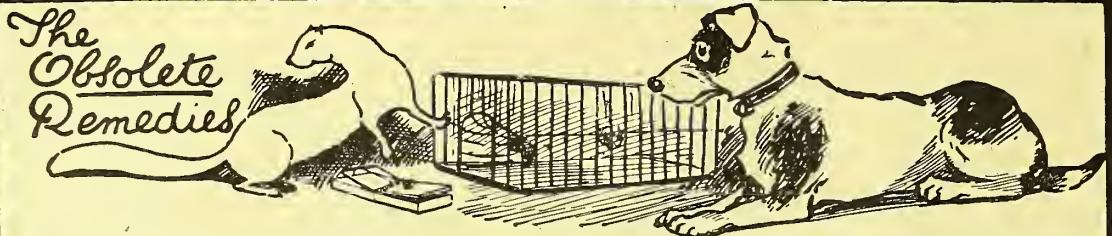
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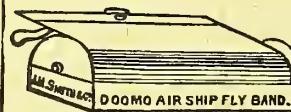
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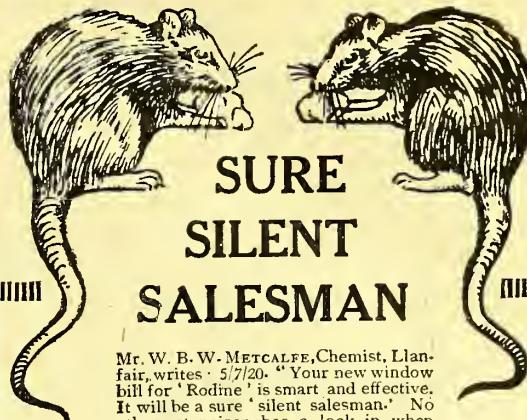
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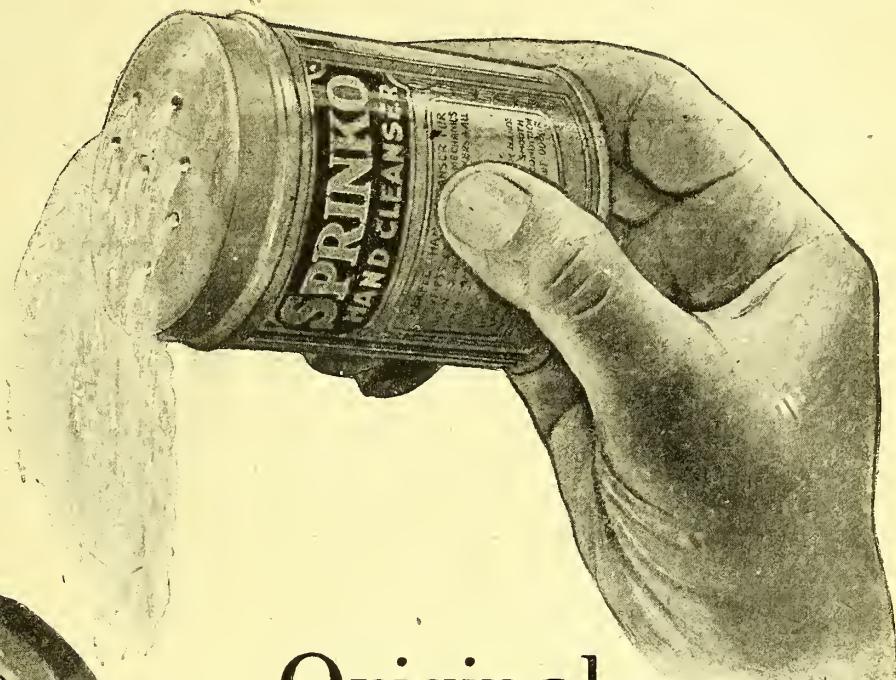
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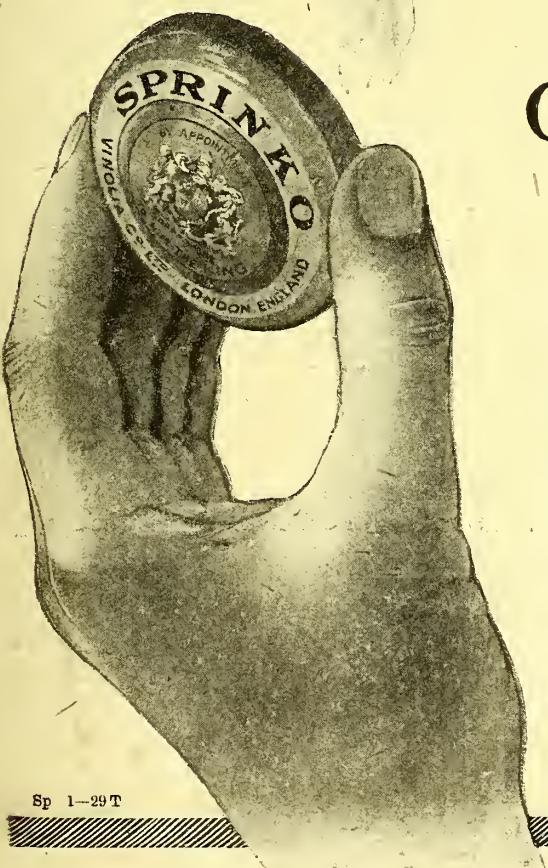
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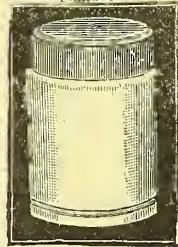
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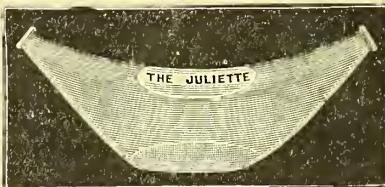
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THE CHEMIST AND DRUGGIST



SUPPLEMENT

42 CANNON ST.
LONDON, E.C.4.

JULY 17, 1920

This Supplement is inserted in every copy of The Chemist & Druggist

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3.—LONDON, E.—Ready-money Business, carried on under unaltered management; scope for development; stock and fixtures estimated at £500; price £650.

4.—KENT (Main Line of Rail).—Middle-class Retail and Dispensing Business, situate in an attractive town; returns, upwards of £2,400, increasing; the shop is fitted in mahogany and the stock above the average; new lease will be granted; price to be agreed.

5.—MIDLANDS.—Ready-money Retail Business, situate in large manufacturing town; returns upwards of £60 weekly; net profit 5%; further details on application.

6.—INLAND HEALTH RESORT.—Very old-established Business; excellent position in good market town; returns exceed £2,500, at full prices; there is a residence, with side entrance, through room; price about £1,600, or valuation terms would be considered.

7.—ESSEX.—Modern Pharmacy, situate in main shopping thoroughfare of a popular residential town; returns between £7,000 and £8,000, under management; good opening for extended trade; large profits; handsomely fitted shop and heavy stock; further details on application.

8.—BUCKS (Market Town).—For immediate disposal, through death of proprietor, old-established, good-class Retail and Dispensing Business, situate in a charming locality, which offers facilities for good boating and fishing; returns between £1,300 and £1,400; net profit 25%; comfortable residence, bathroom; rent £35, rates £17; held on lease; price to be agreed equitably.

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10.—BIRMINGHAM.—General Retail Business, with N.H.I. Dispensing; returns about £20 weekly, increasing; gross profit £350 to £400; double-fronted, roomy shop, fitted in mahogany; stock and fixtures estimated at £550; rent £55, sub-let £30; price £650.

11.—GREAT WESTERN MAIN LINE.—Good-class Retail and Dispensing Business, suitable to a gentleman with West-End experience; returns £3,600, at full prices; vendor is also desirous of selling the property; further details on application.

12.—SOUTH COAST (Seaport Town).—Cash Pharmacy; returns about £3,000; commodious, well-fitted shop, fully stocked; no immediate opposition; terms to be arranged equitably.

13.—NORTH OF ENGLAND.—Lock-up Pharmacy; returns, present rate, £70 monthly; scope for increase; net profit 25%; rent £30; new lease will be granted, or premises may be purchased; price for Business about £650.

14.—SCOTLAND.—Unopposed Mixed Business; returns £20 weekly, at good prices; modern fitted shop, with residence attached; price for Business £600, and a further £600 for the premises.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and make special terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BERDOE & FISH

VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C.3

Telephone: 1809 CENTRAL.

CUMBERLAND.—Small market town. Returns £1,400, low rent, good house, well fitted and stocked shop. Valuation terms, about £650 required.

LONDON, N.W.—Suburb. Unopposed retail. Returns £1,500, can be doubled. Price £1,400.

LONDON, N.—Old-established, light cash retail, with good optical connection. Returns over £2,000. Good profits. Well-fitted pharmacy and fully stocked. Six-roomed house attached. Price £1,000, or valuation, *plus* £75 goodwill. Illness sole reason for selling.

BUSINESSES WANTED.

We have genuine cash buyers on our books prepared to take over immediately businesses in the following localities:

LONDON (good-class suburb).—Prices from £600 to £3,000.

HOME COUNTIES (large or small towns).—Prices from £500 to £2,500.

SOUTH, S.E., or S.W. COAST.—Prices, £800 to £3,000.

EASTERN COUNTIES.—Prices, £600 to £2,000.

SOUTH MIDLANDS OR MIDLANDS.—Prices, £500 to £3,000.

Intending vendors, are cordially invited to correspond. Private register kept. Quick sales guaranteed.

ESTABLISHED 1870.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

NORTH-EAST COAST.—Chemist's Business wanted to purchase, or would entertain partnership in Retail or Wholesale, in the case of Retail with a view to succession; communicate full particulars in confidence; capital available immediately. Apply 148/34, Office of this Paper.

PHARMACIST, capital £1,000, wishes post with view to early succession or partnership. Apply 146/32, Office of this Paper.

WANTED, Business in village or small town, Midlands, South, or South-Western County; cash immediately available; or Management, with view to succession. Reply, in confidence, 147/37, Office of this Paper.

WANTED, a genuine Business, yielding £500-£600 a year net profit, within 20 miles of London preferred, but not essential; also one yielding about £250 a year. Full particulars to 148/4, Office of this Paper.

PARTNERSHIPS.

PARTNER wanted by Scottish Pharmacist desiring more leisure, or Manager anticipating partnership; turnover £8,000; must be energetic, progressive, good organiser, with modern methods; state age, if married, class of trade accustomed to, business experience; give business references, financial position; exceptional chance; strictly confidential. Apply 147/25, Office of this Paper.

PARTNERSHIP, with view to early succession; opportunity for young and energetic Pharmacist with fair amount of capital at command; old-established Business in large town in West of England; exceptional position; large modern premises, with good dwelling-house attached; very healthy surroundings. For further particulars write 149/11, Office of this Paper.

SOUTHALL BROS. & BARCLAY, LTD.

(Valuation and Transfer Dept.)

Special Terms for Probate and Trading Accounts, Income Tax, etc.

For particulars apply—

19, 20, 21 LOWER PRIORY, BIRMINGHAM

PARSON C. BAKER Ph. C., M.P.S.

4 Cyrus Road, Church End

Wm. ROOKE ROBERTS, M.P.S., F.R.C.S.

174 Victoria Street, S.W.1. Tel.: Victoria 27.

Valuers for Purchase, Sale, Probate, Income Tax, Balance Sheet,

Recommended by The British Drug Houses, Ltd., Messrs. Messrs. Barclay & Sons, Ltd., and many other leading Chemical Houses. Valuers to the Association of Manufacturing Chemists.

FOR SALE.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

TO be Sold, the whole contents of a Chemist Shop; the fittings are Spanish mahogany and are quite modern. Apply R. Simon, 57 Brownlow Hill, Liverpool.

4 CARBOYS, as new, 5-gallons capacity, cut-glass stoppers, bent-glass Counter Showcase, 4 ft. x 19 in; very good for quick sale. Curtis, Chemist, 18 Bury Street, British Museum.

2 DOZ. Ross's Lime Juice Cordial, fresh, 36s. doz., carriage marble Mortar, 11-pint size; pair 3-gallon pear-shaped Carboys; Gledhill's Till, 3½ inch roll; what offers. Meyler, M. Haven.

AGENCIES.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

CITY Agent required to work up connection for established Extract manufacturers. Apply 37/9T, Office of this Paper.

IRELAND.—Established Manufacturer's Agent in Belfast, live connection amongst Chemists and Druggists, etc., Wholesale and Retail, is open for additional Agency on commission basis, either for whole or part of Ireland; first-class only considered; interview could be given, and all correspondence treated confidentially. Apply 146/19, Office of this Paper.

AGENCIES solicited by old-established firm having branch throughout India; Household and Toilet Soaps, Fancy Goods, Novelties, Stationery, Patent Medicines, etc.; first-class trade and bank references; principal in London. Write "B" Baalbo Road, Highbury, N. 5.

AGENTS wanted for Sale of Rennet. Apply 1/12A, Office of this Paper.

FIRM OF MANUFACTURERS' AGENTS, established over 20 years, with premises in central position in Glasgow, is open to take up Glasgow or Scottish Agency for anything that interests Wholesale or Retail Chemists; over 600 open accounts in Scotland; can carry small stock; foreign correspondence invited. Apply 114/11, Office of this Paper.

MANUFACTURING Chemists require live Sole Agent, good connection Chemists and Stores, for London suburbs, South Coast, and South Wales. "Toilets" (P. 86/25), Office of this Paper.

OLD-ESTABLISHED Manchester firm, with offices in Bolton and competent staff, are open to accept Agencies for good selling articles other than textiles; proprietary articles preferred. Write Box 249, Sells' Advertising Offices, 32 Corporation Street, Manchester.

TWO commercial gentlemen of unimpeachable integrity, having over 20 years' experience and a sound connection in the Riding of Yorkshire, desire Agencies (commission or buying on three or four good lines, and are also prepared to represent on commission a thoroughly reliable Drug house and a first-class Pharmacy); would open local depot for latter if required. Apply "Agency" (145/15), Office of this Paper.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

ONDON SUBURB.—Good healthy locality; General Light Retail Family Business; returns over £1,200; can do £1,400; profit about £500; scope for N.H.I., Photography, Dentistry, etc.; well-fitted and fully stocked; modern house, with every convenience, and nice garden; long lease, with option of purchase of freehold; vacant possession. Apply 148/11, Office of Paper.

UTH WALES COLLIERY DISTRICT.—Good, profitable Prescribing and Photographic Business; returns between £1,000 and £2,000; 14 years' lease at £52; good house and en. "Seidlitz" (146/31), Office of this Paper.

ORCESTERSHIRE.—Chemist's Business and valuable Freehold Property, in good position; fruit-growing district in Avon; General Retail, Dispensing, Optical, and Photographic; £1,300, at good profits; large, pleasant house; south aspect; laid-out garden, planted choice fruit; full details and price sh. purchasers only. Apply 148/23, Office of this Paper.

SH Business for Sale, in Dover; easily worked; profitable; turnover about £1,800; advantageous lease, 6, 12, or 20; good living accommodation; let to monthly tenant at 21s. dy; well fitted; very fully stocked; every investigation offered; £1,500; sell £1,200; illness cause of sale. Harris, 52 Street, Dover.

EMIST and Druggist's Business, with Dental connection, for Sale; turnover, Dental £360, Chemistry, etc., £1,650 yearly; class; busy locality; wonderful opportunity for rising Dental less and general increase; long lease; good living accommodation; situated in good position, Essex suburb, near trains, trams, buses; owner retiring through ill-health. 148/15, Office of Paper.

EMIST'S well-established Business, London, S.W.; sound remunerative investment; first-class, handsomely fitted, corner lock-up premises, in important main thoroughfare; lease, stock, fixtures, and fittings; net profit exceeds £100 per annum, increasing; prospective purchasers should less about £4,000 capital; full particulars to bona-fide pur- shers. Apply 148/28, Office of this Paper.

R Sale, Druggists (Wholesale only), manufacturing practically all types of Pharmaceutical products, with plant capable of derably increased output; established over 20 years; very medical connection; premises owned by vendors; warehouse, somely fitted offices and showrooms; works with steam pro- plant and electrically driven; eminently suitable for London Southern firm desiring provincial extension; Chartered inants' certificates; principals or solicitors only. Address 2W, Office of this Paper.

ORTANT NOTICE.—For disposal as a going concern that far-famed proprietary household medicine and its com- dents, known as "Barrett's Mandrake Specialities," established 40 years; 30 gold and other medals, etc.; proprietor retiring autumn; exceptional offer, chance seldom met with; stock, registered trade-mark, goodwill, and thousands of elicited testimonials, to be sold outright, either by private y now or by tender later; every facility offered for full itigation to bona-fide purchasers. Apply, with bankers ences, to Professor Joshua Barrett, F.E.S.S., Mandrake e, 26 Beechfield Avenue, Blackpool.

OPRIETOR having acquired larger business is anxious to sell quickly; returns average £85 per month, and rapidly in- ing; N.H.I.; corner shop; working-class district in Birming- et; accept reasonable offer for cash. Apply Wood, 351 High et, West Bromwich.

ELL-KNOWN Proprietary Business for Sale; registered com- pany; premises comprise manufacturing laboratory, etc., and ment saloon off Oxford Street; valuable lease; vendor will et; price £2,000, includes stock; opportunity for business Call, write (stamped envelope), Agents, A. Cox & Co., 60 cary Lane, W.C. Telephone: Museum 6885.

HOLESALE Manufacturing Business (Hairdressers' and Chemists' Sundries, Perfumery, etc.); good old-established ern; turnover £10,000 to £12,000 yearly; net profits last about £2,000; price for lease, goodwill, plant, fixtures, ings, etc., £3,000; stock at value, about £1,000 to £1,500. y Aubrey & Co., 28 Watling Street, London, E.C. 4.

ROOMS WANTED.

ANTED, ROOMS OVER PHARMACIST'S SHOP, in good- class neighbourhood in London, for use as Dental Surgery for dwelling by an expert man who has been at the business a many years. Apply 141/34, Office of this Paper.

LEGAL.

IN THE HIGH COURT OF JUSTICE IN IRELAND.

CHANCERY DIVISION.

MASTER OF THE ROLLS.

In the matter of
HAMILTON LONG & COMPANY LIMITED and Reducedand
In the matter of

THE COMPANIES (CONSOLIDATION) ACT 1908.

NOTICE IS HEREBY GIVEN that a petition presented to the High Court of Justice in Ireland on the 24th day of March 1920 for confirming a resolution reducing the capital of the above Company from £30,000 to £18,000 is directed to be heard before the Master of the Rolls on the 27th day of July 1920.

HAYES & SONS,

Solicitors for the said Company.

41 & 42 Nassau Street,

Dublin.

TENDERS.

GUY'S HOSPITAL, S.E. 1.

The House Committee invite Tenders for the supply of Surgical and Antiseptic Dressings. A list of these with further particulars and form of Tender may be obtained, at the Superintendent's Office: Tenders duly sealed are to be sent not later than 12 noon Wednesday, July 21st.

TO LET.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

DENTAL CHAMBERS.—Ample accommodation above well-known Chemist's business; excellent connection; fixtures, furniture, and fittings *in situ* (if required) for prompt negotiation; immediate possession. Apply (at once) to Proprietor, Folkard & Co., Pavement, York.

SHOP (D.F.), four rooms, scullery, etc., to Let, at 153 Maybury Road, Woking (key 154); rent £55; 14 years' lease; in-going for fittings, etc., £25; growing district; good opening for Chemist and Druggist. Owner, 87 Briarwood Road, Clapham, S.W. 4.

TO Let, with immediate vacant possession, House and Shop adjoining; A1 position in main street; small seaside town; very low rent to suitable man. Apply, first instance, to 21/7L, Office of this Paper.

TO Let, July-August, Four Rooms, Kitchen and Bath; furnished; self-contained, over Pharmacy; seaport town, Devon. 148/9, Office of this Paper.

SITUATIONS OPEN.

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BARRY DOCKS (GLAM.).—Unqualified Assistant required at once. Apply, stating full particulars of experience, salary required, and enclose photo if possible, W. T. Hicks & Co., 28 Duke Street, Cardiff.

BATTERSEA POLYTECHNIC, London, S.W. 11.—The Governing Body require the services, during the Session 1920-21, of part-time Day Lecturers in Pharmacy, Dispensing, Materia Medica, and Pharmaceutical Botany. Full particulars and stamped addressed envelope to the Secretary.

BIRMINGHAM.—Junior, experienced, required for good-class Dispensing and Photographic business; outdoors; no Sunday or Bank Holiday duty. State age, references, and salary required, Marshall Bros., Pharmacists, Moseley.

EASTBOURNE.—Qualified holiday Assistant (young) for a month from August 16th. References, photo, and salary required; to Geo. A. Harmer & Son, Eastbourne. Good Dispensing and Photo experience can be gained.

LIVERPOOL.—Qualified; young; quick Counterman, accurate Dispenser. Apply "Quinine" (148/10), Office of this Paper.

LONDON.—Required, middle of August, two smart, young Juniors for Counter, Stock, and Dispensing, with knowledge of Photography. Full particulars or personally to Morton's Cash Chemists, Ltd., 295 High Road, Chiswick, W. 4.

LONDON, N.—Junior, unqualified, outdoors, for quick Retail and Dispensing business. Apply, personally if possible, or write full particulars, to A. T. Honiatt & Son, 35 Junction Road, Highgate, N. 19.

LONDON, N.—Unqualified lady Assistant, with experience of quick Chemist's business. Full particulars and salary required, 92 Packington Street, Islington.

LONDON, W.—Qualified Manager (outdoors); active; accustomed to Store trade and Photographic. State age, experience, and salary required, 149/1, Office of this Paper.

MIDDLETON-IN-WHARFEDALE SANATORIUM.

APPOINTMENT OF DISPENSER.

The County Council of the West Riding of Yorkshire invite applications for the appointment of a DISPENSER (non-resident) at the Middleton-in-Wharfedale Sanatorium, near Ilkley (200 beds). The salary will be £200 per annum.

Further particulars and form of application may be had from the undersigned by whom all applications must be received not later than the 7th August, 1920.

FRANCIS ALVEY DARWIN,
Clerk of the County Council.
County Hall, Wakefield,
16th July, 1920.

NEAR CROYDON.—Wanted, a reliable Improver or lady Assistant; knowledge of Dispensing; state particulars and salary expected; must live in the immediate district. Apply 41/2V, Office of this Paper.

NELSON.—Junior Assistant required for good-class Dispensing and Photographic business (Photographic experience essential); permanency and generous terms to right man; give full particulars as to salary, experience, references; no Sunday work; 48½-hour week. Briggs, Chemist, Nelson.

RYAL LONDON OPHTHALMIC HOSPITAL, City Road, E.C. 1.—Assistant Dispenser, about 24, required; Pharmaceutical Society's qualification essential; hours 8.30 to 4 or later, Saturday 1 o'clock; lunch and tea provided; state clearly experience, age, qualification, when free, and salary required; photo requested from those unable to apply personally, before 2.30, to the Dispenser.

SOUTHSEA.—Qualified Locum, July 23rd-29th inclusive. State age and salary required, and enclose copy of reference, to Arnold & Sons, King's Road.

ASSISTANT for holidays; Junior might suit; outdoors; no ladies; near Queen's Park Tube Station (Bakerloo Tube). R. R. Pratt, 94 Canterbury Road, Kilburn, N.W. 6.

ASSISTANT unqualified, wanted for brisk Counter trade and N.H.I. Dispensing. Massinghams, Ltd., 34c Green Street, Bethnal Green, E. 2.

Boulton & Skelton, Ltd., require at once qualified Chemist; state full particulars, age, salary, etc., Grimsby.

BRANCH Manager; near Manchester; qualified; single preferred. about 30 years of age. Full particulars and salary required to 146/260, Office of this Paper.

BRANCH Manager wanted (early in August) for quick Cash Retail, with N.H.I. Dispensing and Photography. Please send usual particulars, with photo (to be returned), stating salary expected, Chas. Thompson & Sons, Chemists, 159 Stratford Road, Birmingham.

DISPENSER required in Private Surgery in London; previous experience preferred; unfurnished rooms if married. Address, stating age, experience, references, and salary required, 149/2, Office of this Paper.

DISPENSERS (Locum), with Hall qualification, lady or gentleman, required from Thursday, August 5th, for fourteen days; outdoors; remuneration £23 per week; good references essential. Apply by letter only, in first instance, to "Dispenser," 9 Fore Street, E.C.

EXPERIENCED Assistant for country business; N.H.I., Dispensing, Prescribing, Agricultural; hours 8.30 to 8, Wednesday 1, Saturday 9 p.m.; no Sunday or Bank Holiday duty; outdoors; state salary, age, and last two references, with photo (to be returned). McLanahan, 44 Church Street, Audley.

IMPROVER or Junior, 17 to 19 years, wanted for busy business in S.W. London (outdoors). Apply, with particulars, to 149/3, Office of this Paper.

JOHN BELL & CROYDEN, LTD., 50 Wigmore Street, W. 1, require a qualified Assistant for their Dispensing Department. Apply personally or by letter.

JUNIOR Assistant, unqualified, for Manchester district; having had three or four years' experience at Counter Dispensing. Please furnish full particulars to 146/26, Office of this Paper.

JUNIOR Assistant for Light Retail and Dispensing, with knowledge of Photography, required at once; good references essential. State experience and salary, Marshall & Co., 5 Pimlico Road, S.W. 1.

PARKE'S DRUG STORES, LIMITED, require a Qualified (immediately); progressive wage for progressive man; applicants must have good London experience; knowledge of Photography and Optics an advantage. Apply by letter only, stating age, height, and experience, to 65 Harwood Street, Kentish Town, N.W. 1.

QUALIFIED Manager required; young, reliable; knowledge of Photography essential. Reply, with full particulars and salary required, Colmans, 19 Brunswick Street, Manchester, N. 1.

QUALIFIED man wanted as First Assistant for a good-class suburban business; easy hours; no Sunday duty; disengaged about end of August. Apply, with salary required, etc., to New Wright, Chemist, Ilford.

QUALIFIED Minor (male) for Dispensing; easy hours; experienced man only. Full particulars and salary required, Taylor's Drug Co., Ltd. (late Blain & Hankinson), 69 Market Street, Manchester.

QUALIFIED Manager wanted immediately; London experience necessary; must be energetic and progressive; salary £26 and commission. Apply, stating age and full experience, "Galen" 29/13P, Office of this Paper.

RELIABLE Assistant wanted at once; unqualified. Please state full particulars as to experience, references, and salary required, to Gregory & Wrenn, Chemists, Taunton.

TILL end of September.—A competent Assistant, accustomed to good-class Detail and Dispensing. Kindly state age, height, details of previous experience, salary required (outdoors), when disengaged to D. T. Evans, The Parade, Margate.

UNQUALIFIED Assistant; experienced, first-class Counter work; hours of business 8.45 to 7; Saturdays 8.45 to 1; Sunday duty. State in confidence, experience, age, salary required, with photo (if possible), to Midgley's, 4 Exchange Street, Manchester.

UNQUALIFIED Assistant required; young; good knowledge of Photography essential. Reply, giving full particulars and salary required, Colmans, 19 Brunswick Street, Manchester, N.

UNQUALIFIED Assistant for Retail Counter, knowledge of Photography, and Window-dresser. Full particulars and salary required to Manager, Taylor's Drug Co., Ltd. (late Blain & Hankinson), 69 Market Street, Manchester.

WANTED, Junior Assistant, capable and trustworthy, for good-class Retail and Dispensing country business. Kindly state age, experience, references, and salary required (indoors). D. Lewis, The Pharmacy, Tisbury, Wilts.

WANTED, Junior or Improver, about 20; indoors. J. J. Smith, The Pharmacy, Moreton-in-Marsh, Glos.

WANTED, an Assistant, either qualified or good Junior; must have been accustomed to good country business. Apply with usual particulars, including salary and references, to M. Ford, Chemists, Bridgend, Glam.

WANTED, during August, Junior Assistant or Dispenser; boy or gentleman. Please state age, height, reference, experience, and salary required (outdoors). J. J. Thomas & Sons, Chemists, Rochdale.

WANTED, Locum lady Dispenser, qualified, for three weeks commencing July 29th. Reply, stating terms, to Dr. Peacock, Great Yarmouth.

WANTED, an energetic, qualified man as Branch Manager N.H.I. Dispensing; outdoors; must be good Counterman and quick, accurate Dispenser. State particulars, previous experience and salary expected, to D. Davies, 324 Caledonian Road, N. 1.

WANTED, a part-time Dispenser (lady); three evenings a week, 6 till 9. Dr. Johnson, 46 Packington Street, Islington, N. 1.

WANTED, qualified, permanent; near South Shields. Apply 142/30, Office of this Paper.

WANTED, competent, reliable Assistant, qualified, principally for Dispensing; state age, height, salary required, and enclose photo, if convenient. Anderson & Virgo, Chemists, Worcester.

£350 PER ANNUM.—A French- or Italian-speaking Assistant, with good West-End or Continental experience. Apply 147/29, Office of this Paper.

WHOLESALE.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

NORTHERN COUNTIES.—Required, at once, Resident Representative for Northumberland, Durham, Westmoreland, and Cumberland; previous Travelling experience and good connection amongst Chemists and Doctors in this area absolutely essential; lines to be carried are well-known Pharmaceutical Specialities; give full particulars previous employers, salary required, etc., in first application. Apply 4/41B, Office of this Paper.

A FEW first-class Travellers required with good connection with Chemists and Stores to push sales of seasonal article; sales to be helped by local advertising campaigns; districts particularly required, London, Bristol and South Wales, Yorks and Lancs, Glasgow; handsome terms to right men. Particulars to "Velox" (146/17), Office of this Paper.

A SSISTANT Chemist required in the Analytical Laboratories of Allen and Hanburys, Ltd. Apply, stating salary required, to "N. E." c/o Messrs. Allen & Hanburys Ltd., Bethnal Green, E.2.

C OMERCIAL Chemist wanted by leading food house; must be qualified, experienced in analysis under Food and Drug Act, possess initiative, and have manufacturing experience. Apply 43/11W, Office of this Paper.

D RUG TRADE.—Wholesale, experienced Clerk required for office; must have had a good experience in Wholesale Drug trade. Apply by letter, stating age, copies of references, etc., darkness, Beaumont & Co., Wholesale Druggists, Junction Bridge, Leith.

E ENERGETIC man wanted; wholesale and export experience; salary and commission. Apply P.C.B. 85/31, Office of this Paper.

F IRST-CLASS Traveller required to represent Surgical Dressings and Sundries house; South-Eastern Counties; one with connection preferred, but not essential. Apply 4/40B, Office of this Paper.

F OREWOMAN, to take charge of girls packing Toilet Preparations; must be thoroughly capable, efficient, and good disciplinarian and timekeeper; willing to work with girls and not only supervise; must have had similar experience; good references essential. Reply, stating age, experience, and wages required, 14/19I, Office of this Paper.

L IVE Travellers wanted, with sound connections, to sell well-known Flybands and Papers, etc.; good commission terms. Apply London Chemical Co., 75 Grant Road, Addiscombe, Surrey.

M AJOR man required by Wholesale Drug House, South Coast, for testing and experimental work; well-fitted laboratory. Apply, in confidence, mentioning salary desired, experience, age, etc., 147/34, Office of this Paper.

M ANUFACTURING Perfumers require Chemist with an all-round experience in Toilet articles; fullest particulars essential. Apply 33/17R, Office of this Paper.

R EPRESENTATIVES wanted.—The Proprietors of a well-known and widely advertised Medicinal Water are prepared to appoint gentlemen calling on Chemists, etc., in London, the Eastern, Southern, North-Eastern, Midland, and Northern Counties of England; also in Scotland; applicants should state what lines they at present carry and districts covered, terms expected, and experience; applications will be treated confidentially. Write Box 296, c/o Mitchells Advertising Agency, 1 Snow Hill, E.C.1.

R EQUIRED, a thoroughly experienced and reliable man for the production of high-grade Toilet Preparations; the position is one that calls for energy, good technical experience, and accuracy. Applicants possessing these qualifications should write, stating fully past experience, age, and remuneration required to 23/21M, Office of this Paper.

TABLET Maker required with knowledge of Sugar Coating. State experience and salary required to Thompson & Capper, Ltd., Manesty Building, College Lane, Liverpool.

T RAVELLERS (good Salesmen) wanted to sell Sweetening Tablets, Lemonade Powder, etc., to Cafés, Restaurants, small shops selling soft drinks; small salary and commission; London and suburbs; good references essential. Apply, with full particulars re experience, etc., 146/30, Office of this Paper.

T RAVELLERS wanted for sale of an original series of high-class Pharmaceutical Specialities and Toilet-Preparations, on commission basis only; send full particulars of terms, experience, and ground covered. Apply 15/11J, Office of this Paper.

WANTED, Traveller to represent well-known sundry house; applicant must have travelled in sundries previously, and be thoroughly conversant with the trade; ground to be covered Lancashire, Yorkshire, etc.; good salary and expenses to energetic young man; excellent opening with good prospects. Apply 35/24S, Office of this Paper.

WANTED, by a provincial firm of Wholesale Druggists, an intelligent and energetic Clerk accustomed to the Drug and Patent Medicine business. Apply, stating age, experience, and salary required, to "Ang" (21/6L), Office of this Paper.

WANTED, Analytical Chemist, with experience, treating waste water containing sugar. Apply 149/4, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

E AST AFRICA.—Wanted, for Nairobi, British East Africa, qualified Assistant, single, under 30, with knowledge of Photographic business preferred; salary £30, £32 10s., and £35 per month for first, second, and third years respectively; second-class passage paid out. Apply, with particulars of experience, references, and recent photo, if possible, to P.C.B. 86/37, Office of this Paper.

J OHANNESBURG, S.A.—Wanted, qualified lady Chemist; passage paid. Apply, by letter in first instance, stating salary required, etc., reference XG, Spicer Bros. (Colonial and Foreign), Ltd., 19 New Bridge Street, E.C.

R EPRESENTATIVES.—Pharmacists or unqualified Assistants speaking French or Spanish fluently and desirous of seeking a career abroad are invited to apply for appointments on the foreign travelling staff of London firm; previous travelling experience not essential; young and unmarried men preferred. Apply, with full particulars of age, qualifications, previous experience, etc., to 4/39B, Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A POSITION as a Senior Assistant or Manager required by advertiser, with over 11 years' experience of good-class Dispensing and Retail trade, also Photographic trade; highest business and personal references; outdoors; 31; unqualified. Apply 147/32, Office of this Paper.

A QUALIFIED Chemist disengaged; Manager, permanent, or Locum; thoroughly competent. "Chemist," 12 Stockwell Park Road, Clapham, S.W. 9.

A QUALIFIED Chemist, disengaged; Manager or Locum; thoroughly competent; town, country, seaside experience; up-to-date Photography. 149/16, Office of this Paper.

A SENIOR Assistant or Manager requires berth; South Coast preferred; good references. F. Gorell, 46 Elm Park, Brixton.

ADVERTISER, 32, desires work; 12 years' experience Dispensing, Clinical work, Surgical Dressings, etc.; practical knowledge Radiography, Bacteriology, Photography; would suit partners with large practice; efficiency certificates and references unquestionable. V. Brett, 54 Guildford Road, Croydon.

ADVERTISER, qualified (40), wishes to take management or enter into partnership. "Progressive" (147/23), Office of this Paper.

ADVERTISER, West-End Company Manager since demobilisation (business many years previously), seeks post where he could have financial interest. "Pharmacist," c/o Messrs. Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C.

AS Locum; excellent experience and references; reasonable terms; disengaged. "Chemist," Kingston House, Pierrepont Street, Bath.

ASSISTANT; unqualified; 40; height 5ft. 10in.; been out of business some time; no Dispensing or Window-dressing; Counter preferred 35 Port Vale, Hertford.

ASSISTANT, speaking French, West-End and Continental experience, desires Locum or permanency. "Aspirin" (P.C.B. 84/36), Office of this Paper.

ASSISTANT (28), unqualified; experienced in high-class Dispensing and Counter; disengaged. W., 53 Palace Square, Norwood, S.E. 19.

ASSISTANT, unqualified (30); immediately; London; personal interview. E. Williams, 134 Kender Street, New Cross, S.E.

ASSISTANT, unqualified, 40, tall, married, desires permanency; reliable Dispenser; smart Counterman; interview willingly. Hannath, 53 Cantelupe Road, East Grinstead.

ASSISTANT (unqualified), abstainer, town and country experience, desires post; good references; reasonable salary. "Assistant," Spa Pharmacy, Montpellier, Cheltenham.

ASSISTANT or Manager; thoroughly experienced, town and country; well recommended; 30; single; qualified; disengaged. Apply 148/5, Office of this Paper.

ASSISTANT, unqualified, 13 years' experience, well up in Dispensing, Counter, and Photography, desires London post; disengaged. "Drugs," 21 Lansdowne Road, South Lambeth, S.W. 9.

ASSISTANT, qualified, desires position, with view to succession; town or country; within 60 miles of London. 148/27, Office of this Paper.

CHEMISTS' Stocks taken and valued; few immediate vacant dates; satisfaction and accuracy guaranteed at lowest terms; Chemists' own stock-books priced; licensed valuer. 27 Cambridge Road, Westcliff-on-Sea.

DENTAL and Pharmacy branch management by middle-aged, experienced gentleman (both registers); married, no family; easy hours desired; please state salary and fullest particulars. "Dentalis," The Willows, Talke, Staffordshire.

DISENGAGED; qualified; Manager, permanent or Locum; West End preferred; 25 years' London experience. "Chemist," 108b Elgin Avenue, W.9.

DISENGAGED; exceptional Dispensing and all-round experience. B., 71 Hele Road, St. Mary Church, Torquay.

DISPENSER.—Professional man's widow (30) requires post; six years' experience; Hall qualification; excellent testimonials. Apply 147/1, Office of this Paper.

DISPENSER (lady), just disengaged, requires post; experienced; Doctor, Chemist, or Institution. "E. B." 7 Carleton Road, N. 7.

DISPENSER (unqualified), age 23, 7 years' experience, requires season-place; if local, low wage. Stober, 28 Harlow Moor Drive, Harrogate.

DISPENSER, lady, unqualified, requires post with Doctor or Chemist; good experience; thoroughly reliable and competent. Apply 148/24, Office of this Paper.

DISPENSER-BOOKKEEPER to Doctor; qualified; Minor Surgery, Dressings, and Extractions; abstainer; married; some references. Apply 147/39, Office of this Paper.

EXPERIENCED Assistant; Scotsman (30); good Dispenser and Counterman, Window-dresser; highest references. 112 Wandsworth Bridge Road, Fulham.

EXPERIENCED Locum; City and West-End experience; thorough Dispenser and Counterman; recommended leading house vacant July 23, through postponing date. L., 27 Cambridge Road, Westcliff-on-Sea.

IN Liverpool district, over middle-age, qualified; temporary or permanent; Assistant or Manager. Wilson, c/o E. Giles, Ltd., 105 Scotland Road, Liverpool.

JUNIOR Assistant requires post until end September or longer; disengaged any time; good references and experience. Apply Griffith, Pyracanth, Ruthin.

LADY Dispenser, Hall qualification, four years' Hospital experience, disengaged. Miss Thomas, 35 Westbourne Grove, West Kirby, Cheshire.

LADY Dispenser, Hall, desires post; good experience Counter and Dispensing; Locum or permanency. B., Mill House, Albury, Surrey.

LADY Dispenser (Hall), two years' experience, requires post with Doctor, Hospital. Allanson, Mornings Mill Farm, Willingdon, Eastbourne, Sussex.

LADY Dispenser (Hall), Bookkeeper, desires post with Doctor, Hospital; five years' experience; excellent testimonials; Locum or permanency. 148/38, Office of this Paper.

LADY Dispenser, Hall qualification, requires post: Locum or permanency; experience with Hospital and Chemist. 149/38, Office of this Paper.

LADY, with knowledge of Dispensing and Medical Bookkeeping, seeks further experience with Doctor or Chemist, permanent or otherwise; salary immaterial; well recommended. K. W. Atherton Road, Forest Gate, E.

LOCUM, qualified, would take charge with light duties; small remuneration; retired; 55; active; best references. Apply 145/5, Office of this Paper.

LOCUM; seaside preferred; qualified; 38; experienced; disengaged now for few weeks. Smith, 6 Fairholme Road, West Kensington, London, W.

LOCUM; qualified; Hospital or business; disengaged now; please state salary offered. J. Horsbrough, 66 Bloomfield Road, Darlington, Co. Durham.

LOCUM, Relief, or Manager, with view to succession; qualified; excellent references; distance no object. 78 Manchester Road, Blackpool.

LOCUM; unqualified; 23; disengaged July 19th-29th, August 9th onwards. "Semi-Minor," Elmwood, Barnsley, Yorkshire.

LOCUM or Manager, qualified, disengaged July 26th; steady and reliable. Stone, c/o Mr. Adams, 56 Marine Parade, Brighton.

LOCUM, qualified, disengaged till August 7th, after September 5th. "B." 1 Palace Gardens, Enfield, Middlesex.

LOCUM, London district, or 40-mile radius. A. B., 30 The Broadway, Crouch End, N.8.

LOCUM, Minor student; West England or London; free August 7th. D. Wilson, 17 Rhodesia Road, Clapham, S.W.

LOCUM (unqualified) wants engagements; disengaged now; experienced; South of England. Apply Dunlop, The Elm Glebe Villas, Hove.

LOCUM or permanent; qualified; good town and country experience; disengaged 19th; age 46; height 5 ft. 10 in. Longman, 70 Kennington Oval.

LOCUM (immediately): seaside or City; part-time; reliable, Dispensing, Counter, Photographic, Hospital. Chemist, 11 Agar Street, Limehouse, E. 14.

LOCUM, disengaged last week in July and first fortnight August. Duckett, 4 St. Andrew's Square, Surbiton.

OCUM; experienced Pharmacist (35); several vacant dates from July 28th; well recommended. Parker, c/o Davis, Chemist, Stock.

ONDON.—Manager; qualified; married; best all-round experience town and country; expert in Photography and Prescribing; not afraid of work; thoroughly competent and reliable; now engaged. "Salol," 42b Grand Parade, Harringay, N. 4.

I.P.S.—Small branch, Locum, or where qualification is necessary; easy berth; easy terms. 21 Waldeck ad, Nottingham.

ANAGER, M.P.S., with qualified wife, desire joint position; excellent all-round experience; good-class, Retail, N.H.L., photographic, Agricultural. Apply 146/140, Office of this Paper.

ANAGER; qualified; disengaged; experienced, energetic, capable; Lancs or Yorks preferred, not essential. Jones, 33 Stcliffe Road, Birkdale, Southport.

ANAGER or Senior; 29; qualified; town and country experience; Locum or permanency; South preferred, not essential. orgre; c/o Colmans, Ltd., 322 Ashton New Road, Manchester.

ANAGER or Senior; qualified; 38; best-class experience as Assistant and Manager; good organiser; fluent French; town country. Scott, 57 Cartwright Gardens, W.C. 1.

ANAGING Assistant (40); unqualified; all-round experience; disengaged; locum or permanency. State salary, "Energy," Belle Vue, Pinner, Middlesex.

LANDS.—Qualified (33); married; Assistant or Manager; good-class Dispensing and Agricultural experience; travelling distance of Kidderminster; last berth 4 years. Robinson, 12intington Road, Coventry.

INOR Student (25) desires post, part-time, London district, or Locum, coast town; 5 years' good experience Dispensing, Inter, Photographic. "Annon," 52 Hemberton Road, Stockwell, W. 9.

ART-TIME, elderly Chemist, will give time for rooms unfurnished; take charge; highest references! town or suburb. Apply 141/33, Office of this Paper.

ART-TIME; London; unregistered; 28; abstainer; evenings, Saturdays, and an occasional Sunday; interview if desired. Apply 148/6, Office of this Paper.

HARMACIST; married; experienced; town and country; with photography; excellent references; disengaged. Webb, nston, Newmarket, Suffolk.

HARMACIST can do Locum first fortnight and after 23rd August; extensive experience, City and provincial; first-class testimonials; dependable references; Managership or Assistancy; all terms, with travelling expenses. "Fidelis," 28 Thorngate ad, London, W. 9.

HARMACIST, at liberty three days weekly; London district; 25 years' experience in all branches; good appearance and dress. "Experience" (148/36), Office of this Paper.

UALIFIED.—Temporary situation required for two or three weeks, between dates July 19th to August 7th, by young, qualified man; Dispensing, Counter, Photographic; London preferred. C. T. Hines, Norfolk House, Danvers Road, Hornsey, N. 8.

UALIFIED man seeks engagement; Manager or Assistant; age 30, tall, and of good appearance; excellent references. W., 2 Noel Street, Kimberley, Notts.

UALIFIED, with good experience, seeks position as Assistant or Manager in good-class business. Staincliffe, Highfield ad, Idle, Bradford.

UALIFIED Medical seeks position in Pharmacy; some experience Dispensing; open to interview; single; abstainer; terms arrangement. P.C.B. 86/29, Office of this Paper.

UALIFIED Manager; good London Store experience; disengaged. "Statim" (147/230), Office of this Paper.

UALIFIED; single; 32; disengaged August; Midlands or North preferred; good experience. "C." 10 Burnley Road, ckwell, S.W. 9.

UALIFIED Manager or Locum, disengaged; good all-round experience; town or country. J. Fraser, 71 East Street, ghton.

UALIFIED; 37; single; steady and reliable; good all-round experience West-End Dispensing; South Coast preferred; state salary offered. Apply 148/16, Office of this Paper.

UALIFIED (Minor), lady, 6 years' all-round experience, requires, temporary or permanent position. Miss Wells, 64a Strand.

UALIFIED (21) wants Locum work for any period; £6 6s. weekly. Crossley, School House, Selattyn, Oswestry.

UALIFIED, abstainer (32), 10 years' Hospital, quick and reliable, desires more work at reasonable wages; home or abroad; permanent; or Shop with view to succession. 148/50, Office of this Paper.

UALIFIED Lady desires post in good-class Pharmacy; Counter, Dispensing, or both; Square training; free September; permanency. 149/15, Office of this Paper.

UALIFIED, married, requires post, Manager; branch, with house, preferred. Replies, please, to 149/15, Office of this Paper.

STATIM; age 20; five years' good all-round experience Dispensing, manufacturing, and good Salesman; whole or part time. 20 North Villas, Camden Square, N.W.

UNQUALIFIED; age 22; six years' experience; disengaged; excellent references. Apply D. Plas, Thelwal Farm, Benclech, Anglesey.

UNQUALIFIED; 23; tall; six years' experience Dispensing, Counter, and Window-dressing; quick but careful in duties; well recommended; smart in appearance; good references. Frost, 31 Princes Street, Kettering.

UNQUALIFIED Assistant, 30, tall, single, 10 years' good-class experience, desires permanency; trustworthy; state salary; Manchester district, Cumberland, or North preferred. Apply 146/25, Office of this Paper.

UNQUALIFIED, age 34, seeks situation; 20 years' experience Drug trade; good Salesman, Dispenser, and Window-dresser; exceptional references; Lancashire, Yorkshire, or Staffordshire preferred. Apply 147/50, Office of this Paper.

UNQUALIFIED; married; good all-round man, with splendid Dispensing experience; capable of taking charge; 10 years last situation; excellent references; Manchester district preferred; interview desired. "Radix" (P.C.B. 86/24), Office of this Paper.

ANTED by Chemist (qualified), Locum or permanency; London or country. Terms, etc., to P.C.B. 86/34, Office of this Paper.

YOUNG Lady (19) requires post with Chemist, to obtain good Dispensing experience; completing studies; disengaged end of July. Aeron, 21 Westbourne Gardens, London, W. 2.

£4 WEEKLY; lady Minor; four years' excellent references; South preferred, but not essential; permanency or Locum. Apply 146/14, Office of this Paper.

WHOLESALE.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

ADVERTISER, 16 years' experience, desires to represent a good house calling on Chemists; Welsh Counties. Apply "Tack" (146/22), Office of this Paper.

ADVERTISER, 20 years' experience Pharmaceutical, Proprietary, Herbal, Toilet, and Hairdressers' Preparations, etc., requires whole- or part-time situation, Wholesale or Retail. Stokes, 81 Turners Road, London, E. 3.

ADVERTISER requires responsible position in good house; thorough knowledge of packed goods; able to introduce new lines; can take full control; excellent references. S. (P.C.B. 86/21), Office of this Paper.

ANALYTICAL Chemist (23), University training, desires a situation in a laboratory (private or works); knowledge of Food, Metal, and Drug analysis. W. Dennis, 176 Junction Road, Tufnell Park, N. 7.

CAN introduce sound, reliable Business; worth your consideration; Wholesale and Retail; W. of E., S. Wales. H. B. Cooper, 27 Queen's Road, Reading.

CAPABLE, trustworthy, 20 years' first-class Retail, requires position as Representative on salary. Hannath, Cantelupe Road, East Grinstead.

COMPRESSED Tablets.—Situation required by man with exceptional experience in all branches of the business. Letters to "M. B." (4/42B), Office of this Paper.

POST as Traveller; just completed three years' London engagement with high-class firm. Blanchford, 76 High Street, Wimbledon.

REPRESENTATIVE, experienced, is open for re-engagement with good-class house; North of England connection and South Wales. "Statim" (146/23), Office of this Paper.

SMART business man, thoroughly acquainted with South Wales and West of England districts, would represent firm of repute on commission basis, or would entertain salary and commission; no Drugs. Apply 140/9, Office of this Paper.

SUNDRIES.—Gentleman, 8½ years with leading London brush manufacturer, calling on Chemists over a wide provincial area, desires to engage with a good sundries house on August 1st. Reply, in confidence, to P.C.B. 85/32, Office of this Paper.

TOILET PREPARATIONS.—Works Manager desires change, also experienced Toilet Soap and Chemicals; London preferred. Apply 145/6, Office of this Paper.

TRAVELLER desires change; present calling on Chemists for first-class firm, Midlands, Eastern and Western Counties. For particulars apply 144/13, Office of this Paper.

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ABOUT 60 tins Camwal's, Ltd., 2d. packet Lemonade Powder; a real good Chemist's line; packed, 22 dozen in a tin; 20s. a tin, carriage paid; samples free on request. H. Thomas, 4 New Cut, Waterloo, London, S.E. 1.

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EUREKA Tablet Machine, or similar, wanted, in perfect condition. Full particulars to 142/24, Office of this Paper.

WILLING to purchase proved successful formula for Sugar Pearl Coating (wholesale) with method of working. Apply 146/21, Office of this Paper.

WANTED, Ol. Pini Pumilonis; state quantity and price. Apply 29/14P, Office of this Paper.

QUININE Sulphas.—Manufacturing Chemists are open to buy to 5,000 oz. State price, brand, and delivery to 4/4 Office of this Paper.

MORTARS, Bellmetal; specimens wanted; ornamented handled preferred. Photo, description, and price to 145/4 Office of this Paper.

PHARMACEUTICAL Books wanted; cash offers on receipt. Gower, Bookseller, 41 Voltaire Road, Clapham.

WANTED, Radium Salt, pure or Residues, old Applicators, Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

TO Chemists.—If you have any Ford's Balsam of Horehound which you are unable to dispose of, and which has been sent within the last ten years, please communicate with P.C. 86/19, Office of this Paper, and state price you will take for it.

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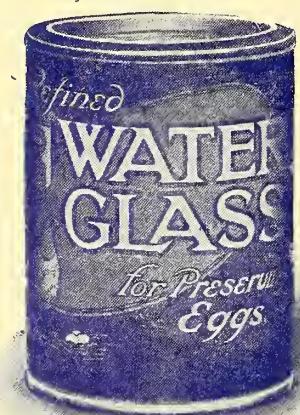
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